Tom Eugelink

Personalia

City	Aalten, Netherlands
Date of birth	25 juni 1970
Function	Senior software engineer / solution architect
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Blog	https://tbee.org
Hobbies	Dancing, Basketball, Gym
Languages	Dutch, English and German fluent

Education

Education	VWO (CSA Aalten, 1989) HBO Informatica (HIO Enschede, 1993, cum laude) TOGAF & archimate certified architect
Books	Just enough software architecture Risk Driven Software Architecture Functional and Reactive Domain Modeling Patterns, Principles and Practices of DDD Implementing Domain Driven Design Building modular cloud apps with OSGi Effective Unit Testing Spring in Practice Gradle in Action UML distilled The Cucumber for Java book

Employement

May 1994 – Aug 2002	OVSoftware B.V.
Sept 2002 – Oct 2005	Knowledgeplaza B.V.
Nov 2005 – now	SoftWorks B.V. (self employed)

About

I wrote my first computer program in 1983 on a New Brain, on one of those green monitors with a ridiculous long afterglow, and it was an almost magical experience. Computers were a rare commodity back then, but in that one moment my future became clear; this is what I wanted to do. And that made a lot of choices easy, the only problem was choosing between college and university; in 1989 IT was different, the university was very much focused on the scientific and mathematical aspect, but I wanted to make software to help people in their daily lives, and college was the better fit for that.

That choice for the human side is now more important than ever; software is omnipresent and being used by more and more people every day, often without them even knowing. But software is not only made for people, but also by people. And with all the technological choices and options a developer or architect has, the human factor often is far more important. Technology changes fast, maybe faster than we like, but humans do not.

Experience helps to find the balance between new and proven, between technology and users, between vision and what is needed daily. That is why I often try to find a role alternating between developer and architect, and where I can coach my junior co-workers in the technical aspects of software development. Because, after more than 35 years of stabbing at that keyboard, I believe I've learned a thing or two.

In the end this software thing will probably always remain the hobby it has been since that first basic program. A well written piece of code can still put goose bumps on my arms.

Homecare team; zelfroosteren

Technology: Java, SpringBoot, Vaadin, Thymeleaf, websockets, event driven
Task: Software architect & implementation
Timeframe: since Aug 2022

In home care there usually are autonomously working teams, being facilitated by centrally provided software. Contradicting to their working style, team planning in that software is often done in a centralized form; there are one or two planners per team, and they take care of the planning for everyone. With corresponding unsatisfied colleagues, and planners who feel they never get any appreciation for their effort. It makes much more sense to make planning also a team effort, then no one can complain about the roster.
Developed a web application to facilitate just that, with planning phases so team members do not influence each other when entering their preferred workdays. Followed by a collaboration phase to resolve any issues before the planners need to step up and fix the final issues.

Thales Hengelo produces several hardware and software products for the navy.
Thales; F126/MKS180 (MehrzweckKampfSchiff) training and simulation

Technology: Java, Simulation, HLA, RPRFOM, RTI, MAK, webcomponents, websockets, microservices, containers (podman)
Task: Software architect
Timeframe: nov 2020 – dec 2022

Thales Hengelo produces several hardware and software products for the navy. Include with the hardware is a software system that integrates the sensors and weapon systems aboard a navy ship.
The crew who operate these systems need to be able to act quickly in case of a threat, so they need regular training. Only fire a missile with every training will become expensive quickly, not to mention it being dangerous. Hence all training is done in a virtual world, where all systems have been replaced with simulators. For the latest project the Germany navy has required a higher level of realism than what is common up until now.
Even though simulation is a totally different domain, the underlying techniques are familiar; events, message bus and containers. Interesting is to realize that the concept of microservices was already though of and implemented in 1993.
The work for Thales has been qualified as “top secret” hence no details can be discussed.

JFall; very serious gaming

Technology: Java, Simulation, HLA, RPRFOM
Task: Speaker
Timeframe: nov 2022

The technology used at Thales for simulation is unknown to the wider Java community, but an open standard with an open source implementation. Gave a conference talk about this topic to share this knowledge with my fellow developers.

Argas; class Java for testers

Technology: Java
Task: Teacher
Timeframe: spring 2021

Argas employes testers who test many Java code bases. In a 5 evening class the basic concepts of Java have been explained.

Reinders Posters; ERP, EDI, eCommerce

Technology: RDBMS/SQL (Informix, MySQL), DataWareHouse, stored procedures, Java, JEE (EJB, servlet, JSF2), JPA (Eclipselink), Swing, JasperReports, DMS (Docuware), Test (FEST), webservices (SOAP), EDIFACT, DSL (ANTLR), Javascript, JQuery
Task: Enterprise / solution architect, advice, development
Timeframe: since 2002 (currently 1 day per week)

Reinders Posters is the largest posters and wall decoration supplier in Europe. In order to be able to deliver in such a large area, good IT is a requirement. However, the very trend sensitive wall decoration market requires a process that deviates from normal ERP processes. Hence a custom made ERP system has been build. There are mobile apps, webapps, and webshops. Interfaces with external resellers like Amazon and BOL. Tools for automatic image generation. Analysis of company processes and turning that into software is an important part of the project. And reverse; improving business processes for better efficiency.

Thales; Web technology

Technology: Java, OSGi, OpenSplice, Angular, state management, websockets, protobuf.
Task: Software architect
Timeframe: jan 2020 – oct 2020

Even though Thales could be considered embedded software, they would like to profit from the area where move innovation is present. So in a proof-of-concept determined if web technology is a suitable way for developing for Thales. If SpaceX can launch rockets using JavaScript, why shouldn't a navy vessel not use it? So a part of Tacticos, the Combat Management System, was developed using Angular.

Big international projects like Thales has, often have the requirement that part of the world be placed in the country of the buyer. So big teams, guiding and coaching international team members, all while being limited by export restrictions on the written software.

The work for Thales has been qualified as "top secret" hence no details can be discussed.

Planon; TMS (tailor made software)

Technology: Java, JBoss, Tomcat, OSGi, webservices (SOAP, REST), XML, XSLT
Task: Consultant, development
Timeframe: jul 2017 t/m dec 2019

Planon is an international supplier of facility and contract management software, which is used by international cooperations and governments. The TMS (Tailor Made Software) team is responsible for embedding this software in the existing suite of systems the end client uses. Clients were a.o. EOD, KPN, PGGM, Nokia, Novartis, Roche, Ahold, Akzo and the Rabobank.

Also developed a code generator to improve the quality of the TMS code by enforcing strongly typed coding.

KZA; class Java for testers

Technology: Java
Task: Teacher
Timeframe: spring 2016, 2017, 2018, 2019

KZA employes testers who test many Java code bases. In a 5 evening class the basic concepts of Java have been explained.

SoftWorks; TeslaTasks

Technology: Java, Microsoft Azure, Serverless functions, Vaadin, DDD, podman, kubernetes
Task: Development

Timeframe: since oct 2018
And then you buy a Tesla and believe everything will work automatically. However a trivial thing like scheduling the start of the heater in the morning was (back then) not possible. But hey, every Tesla has a REST API, and you're a software engineer; you can fix that.

Graafschapcollege (MBO); workshop IT

Technology: Scratch
Task: Teacher
Timeframe: februari 2019
A workshop to the students of educational science on how to teach IT in a creative way.

Schaersvoorde (HAVO & VWO); workshop IT

Technology: Scratch
Task: Teacher
Timeframe: nov 2018
Three workshops to high school students for promotion of our trade.

Keylane; lecture "I have an idea; let's write automated tests!"

Technology: Java, unit testing, integration testing, UI testing, Cucumber, Selenium
Task: Speaker
Timeframe: nov 2017
Given a lecture to employees of Keylane about testing of software.

JavaOne 2017; conference session "One application to rule them all"

Technology: JavaFX, mobile, desktop, web
Task: Speaker
Timeframe: oct 2017
Given a session at the JavaOne in San Francisco about JavaFX on a.o. mobile.

Pink Roccade Healthcare; mijnCaress

Technology: Java, Tomcat, myBatis, CQRS, REST, Struts, Javascript, HTML, Testing (JUnit, Cucumber), Continuous integration (Jenkins), RDBMS/SQL (SQLServer, Oracle), Maven, SVN, Sonar, SAML (SP and IdP), DevOps, SAAS, IAAS, Scrum
Task: Solution architect, coaching, development
Timeframe: apr 2016 t/m may 2017
Pink Roccade is one of the largest suppliers of software for government and health care. The healthcare branch needed an update in the processes on software development, as they are common nowadays. Continuous Development and shorter release cycles.

JFall 2016; conference session "One application to rule them all"

Technology: JavaFX, mobile, desktop, web
Task: Speaker
Timeframe: 2016 several JUGs, JFall in 2016, invited to JavaOne in 2017

Nedap Healthcare; "ONS Administratie"

Technology: Java, JEE (EJB2 / EJB3, servlet, JBoss), JPA (Hibernate) / Ebean, JSF, Javascript, HTML, RDBMS/SQL (MySQL), ESB (Apache Mule), Testing (JUnit, Cucumber), Jira, GIT (github), Scrum, Continuous integration (Jenkins), DDD (Domain Driven Design), Ruby on Rails, SAAS
Task: Solution architect, development
Timeframe: nov 2012 t/m mrt 2016
Nedap Healthcare is the most used software time registration system in professional care ate home. Using advanced technologies like smartcards,

smartphones and NFC the caregivers can spent as much time as possible on doing their job as opposed to administrative tasks.
However, due to the fast growth the stability of the software could use some attention. Hence the software was remodularized, upgraded to newer platforms and made unit testable.

JavaFX open source; JFXtras, MigPane

Technology: JavaFX, Java, Maven, Gradle, Eclipse, NetBeans, JemmyFX, GIT (GitHub)
Tasks: Design, implementation
Timeframe: since jul 2011 (still running, open source activity)
JavaFX is a new GUI framework for Java, wat was intended to replace Swing. And just like Swing has the SwingX project, with extension to Swing, so does JavaFX have the Oracle supported JFXtras project (http://jfxtras.org/). JFXtras a.o. provides a date picker and agenda (Google Calendar copy).
Also ported the layout manager "MigLayout" (http://www.miglayout.com/) to JavaFX, which was merged in the official distribution.

JUGs: conference session "JFXtras: lessons learned developing in JavaFX"

Technology: JavaFX, Java 8, Lambdas
Timeframe: 2015 several JUGs

Reinders Posters; Androidapplication for the sales department

Technology: Android, Java, Bluetooth, barcode, RDBMS/SQL (SQLite)
Tasks: Solution architect, implementation.
Timeframe: oct 2011 t/m aug 2015
Sales personel of Reinders during their frequently visits to client need to take inventory of the in-shop stock of their NEXT! products. In order to make that easier an Androidapplication was developed, which uses a bluetooth barcode scanner for easy of entry. This process happens offline and the information in synced with the main office after the visit.

Frozn; automated morgage processing

Technology: Java, JEE (EJB, servlet, Tomcat), JBoss Drools Expert, Workflow (Activiti), JPA (Eclipselink), JTA-XA (Bitronix), TestNG, RDBMS/SQL (PostgreSQL), OCR & data capture (Abbyy), QRCode, DotNet, C#, DMS (O3Spaces)
Tasks: Solution architect, POC
Timeframe: jun 2012 t/m nov 2012
In a slow morgage market providers are looking for way to pull the little bit of revenue their way. One way of achieving this is by by reducing costs by means of high automation to become more competative. This is possible for the more common morgages, where the proces is pretty standard. Clients need to provide their data and document digitally and using business rules plus OCR the provided information is automatically processed. Human interaction is only needed at the very end of the procedure.

Service2Media; Licenceservice for mobile platform

Technology: Java, NoSQL (Cassandra), XML, PKI, Rest, Wicket, Eclipse BIRT, JEE (GlassFish), TestNG, Scrum
Tasks: Solution architect, POC, design
Timeframe: jan 2012 t/m may 2012
Service2Media is one of the world largest developer of mobile apps (winner of the Deloitte Technology Fast 50). In order to be able to do this, a mobile platform called M2Active has been developed via which with één codebase apps for alle common mobile systems can be generated. This platform will now be marketed as a stand alone product. For this a licence structure is needed, for both the runtime and development environments, plus the supporting services

(o.a. notification, payment, deploy to appstores, etc).

Remaining CV (highlights)

Planon TMS (2011) ING, Vitens, foreign office, RUG, …

Technology: Java, JEE, JBoss, RDBMS/SQL (Oracle, MSSQLServer), JUnit, Mockito, Subversion
Tasks: Analysis, project management, implementation.

IsraPunt (2011); phone switchboard

Technology: Java, Swing, JUnit, Mockito, Exchange EWS
Tasks: Analysis, implementation.

KnowledgePlaza (2010-2011); DynamicHours iPad

Technology: iPad / iPhone, iOS, Objective-C, Hessian
Tasks: Design, implementation

Karpi (2003 – 2011); ERP, reporting

Technology: RDBMS/SQL (Microsoft SQLServer, MSAccess), Java, PHP, Apache webserver, HTML, Flash, Muis
Tasks: Consultant, implementation, database management.

KnowledgePlaza (2009-2011); Cheyenne, custom web framework

Technology: Java, Hibernate, JUnit, Spring, XML, XSLT, Tomcat, RDBMS/SQL (Oracle), Eclipse, HTML, Javascript, Jquery, ANTLR, jBPM, SOAP (webservices), Maven
Tasks: Solution architect, implementation.

KnowledgePlaza (2008 – 2011); DynamicHours, time registration

Technology: Java, Tomcat, Eclipse, RDBMS/SQL (Oracle), Applet, Hessian, Maven, JasperReports
Tasks: Implementation

IPPlus (2007-2011); library software

Technology: RDBMS/SQL (MySQL, PostgreSQL), Java, Hibernate, Eclipse, XML, XSLT, Jboss, HTML, JQuery, JAAS
Tasks: Project management, implementation.

KPS (2010); KPProfiler, search in unstructurered data

Technology: Java, Eclipselink, JPA, Lucene, RDBMS/SQL (Oracle), MySQL, SOAP (webservices), REST, XML, DotNet
Tasks: Design, data modelling, implementation, integration tests.

Ten Brinke Investments (2010); post archiving

Technology: Java, Tomcat, DMS (Alfresco), PDF (iText & PDFBox), barcode, OCR (Abbyy)
Tasks: Solution architect, implementation

Knowledgeplaza (2010); Development pipline 2.0, Maven

Technology: Maven, Nexus, Bazaar
Tasks: Implementation, integration tests

Dutch Ministry of Foreign Affairs (2010); Sniplet paper

Technology: Java, Eclipse, SOAP (webservices), PDF (iText, PDFBox), C#, WebParts, HTML, CSS, Javascript, JQuery
Tasks: Solution architect, implementation

Lundia (2009); webshop

Technology: PHP, HTML, JavaScript, JQuery
Tasks: Project management, implementation

PharmaNetX (2006-2008); Health meter, online monitoring of syndroms

Technology: Java, Tomcat, HTML, Javascript, DD
Tasks: Design, implementation.

Online pharmacy (2006-2008)

Technology: RDBMS/SQL (Oracle, PL/SQL), Java, Tomcat, PHP, XML, CMS (InfoGlue)
Tasks: Solution architect, implementation

Dutch tax authorities (2005); TARIC codes

Technology: Java, Tomcat, Lucene, HSQLDB in-memory, SOAP (webservices), REST, Eclipse
Tasks: Solution architect, implementation.

VigorPlaza (2003); Personal Development Planner

Technology: DD, HTML, Javascript, RDBMS/SQL (Oracle)
Tasks: Implementation

Thales (2002); make Framemaker accessible via web

Technology: Java, Tomcat, COM, JEE (servlet)
Tasks: Implementation

Spoorweg Pensioen Fonds (1995-2002); pension oftware

Technology: Informix, Informix4GL, XML, SOAP (webservices), Excel, VBA
Tasks: Design, implementation

De Slegte book shop (1993-2002); custom ERP system

Technology: RDBMS/SQL (Informix), Informix4GL, MSAccess
Tasks: Design, implementation

Universitair Medische Centrum Utrecht (2001); Electronic Patient Dossier

Technology: Java, HTML, SSL
Tasks: Advice, Design

Online commercial postcards (2001)

Technology: PHP, RDBMS/SQL (Oracle), PDF
Tasks: implementation

TUI [Holland International & Arke] (2001)

Technology: XML, http, Java, Eclipse, C, BEA TopEnd
Tasks: Bug hunting

Onderlinge Hulp pension funds (1993-2001); custom pension software

Technology: RDBMS/SQL (Informix), Informix4GL, Cobol
Tasks: Design, implementation

Hansen Information Technologies (2000); infrastructure management

Technology: CAD systemen (Autocad, Bentley, Intergraph), VisualBasic, COM
Tasks: Sales, presentations, implementation.

Siemens-Nixdorf; Class web applications (2000, German)

Technology: HTML, CSS, Javascript, PHP, Java

Tasks: Teacher

Gerling (1999, German); web application

Technology: Unix, Java, Encryption, Authentication, LDAP
Tasks: Advice

Thales; secure remote access (1998)

Technology: extranet, PKI, security, encryption
Tasks: Advice

WestLB (1998, German); web application

Technology: Java, VisualAge, Toplink, RDBMS/SQL (Oracle), HTML, JSP, Servlets
Tasks: Design, implementation

Krames (1996-1997); WOCAS/X

Technology: Informix4GL
Tasks: Implementation

Municipality of Alkmaar (1996)

Technology: Oracle RDBMS, MSAccess
Tasks: Design, implementation

GBA/WVG (1994); law for exceptional health costs (WBZ)

Technology: Cobol
Tasks: Implementation

Krips (1992-1998); automating the internal process of a printer

Technology: Informix4GL
Tasks: Implementation