Jeroen Peeters

IT Specialist

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About me

All-round devops software engineer and technical lead with extensive experience with development stacks such as Java (Enterprise), C/C++ (Embedded), Android/React Native (Mobile). Always expanding my horizon with new and interesting tools and languages such as React, Kotlin, GraphQL and NodeJS. Continuous delivery enthusiast and a big fan of quality metrics to drive improvements. Promoter of agile processes such as Scrum and Kanban. Strong technical skills. Passionate speaker. Always ready to learn something new.

Technology

This section only lists technologies I've recently used.

Platforms; Linux, Docker, JBoss, NodeJS.

Languages / frameworks; Java, Kotlin, C/C++, JavaScript, CoffeeScript, Python, React, Angular, Bash, Ansible, GraphQL.

CI/CD; CircleCI, Jenkins, SonarQube, Nexus, Gitlab, Gogs, DockerHub.

Databases: PostgreSQL, MySQL, MongoDB.

Testing; JUnit, TestNG, Cucumber, TestX.

Process; Scrum, Kanban.

Experience

ICTU / Senior Software Engineer & Technical Lead
JUNE 2017- MAY 2018, THE HAGUE

ICTU is a governmental foundation which goals are to bring the level of software development within the Dutch government to a qualitative higher level. I fulfilled two roles;

- Technical Lead in the Core Team
- Senior Software Engineer in the IQ-Team

As a technical lead I helped the various projects to properly implement continuous delivery, software quality assurance and agile development processes. I was responsible for both process and technical implementation.

As a senior software engineer I developed and maintained a Docker continuous delivery platform on which all projects build their delivery pipelines.

Keywords: Linux, Docker, Java, NodeJS, React, GraphQL, Jenkins, Sonarqube, Zabbix, Grafana, Gitlab, Nexus, Jira.

OVSoftware / Senior Software Engineer

AUGUST 2012 - JANUARY 2018, THE HAGUE

OVSoftware is a mid-sized company that provides software development and personnel deployment services to governmental organizations and agencies. During my time at OVSoftware I was deployed at ICTU.

Within OVSoftware I actively took part in (the organization) of knowledge sharing sessions. I organized workshops around Docker, React and Kotlin. I also created several in depth courses about Docker and the Docker ecosystem which I presented throughout the country.

ICTU / Senior Software Engineer

AUGUST 2012 - JUNE 2017, THE HAGUE

During this time at ICTU I participated as a software engineer on three projects.

- Inspection Data Provisioning System
- Generic Connection Facility
- Registratie voor Niet Ingezetene (RNI)

The Inspection Data Provisioning System collects inspection data from various inspection agencies within the Netherlands (NVWA etc.). The system combines information from these parties and provides a query interface to the same parties. This way all inspectorates can get an integral overview of inspections done by other agencies. It is used to base new and further inspections on risk assessment strategies. I participated as a Java Software Engineer initially and later became the lead developer of the project.

Keywords: Java, Spring, Hadoop, JBoss.

RNI is a central database in which people are registered who have a certain relationship with The Netherlands, but are not residing in the country. It is part of Basisregistratie Personen (BRP). ICTU took over the project from another party. I participated as a Java Software Engineer and Quality Architect. Our initial goal was to make the software work and finalize its implementation. Later our goals shifted towards quality improvements. I used meta-programming to search for defects and inconsistencies using Rascal MPL.

Keywords: Java, Seam/JSF, JBoss, Rascal MPL.

I participated on these projects for about two years. During the RNI project we started experimenting with Docker. These experiments led to the birth of a Docker based continuous delivery platform. The IQ-team was created to further build and maintain this platform for all ICTU projects. The team was also responsible for the incubation of new tools and technologies. In this team I participated as a lead software engineer and solution architect.

Keywords: Linux, Docker, Kubernetes, Docker Swarm, CI/CD, Test tools, Sonarqube, Jenkins, Gitlab, NodeJS, Graphql, Zabbix, Grafana.

UL Transaction Security / Software Developer

JANUARY 2008 - AUGUST 2012, LEIDEN

I have contributed to the development of in-house tools like the Visa payWave Test Tool, Collis Brand Test Tool and the Collis Card Simulator. All of these tools, and many more, are based on the application framework I've developed during my thesis. Maintaining and extending the framework is also one of my responsibilities. Furthermore I take care of software life cycle management (bug-fixes, patches, releases), continuous software integration and technical customer support. Thesis Architecture, design and implementation of a test tool application framework.

Keywords: Java, Swing, Cryptography.

Ministry of Safety and Justice / Software Engineer

JUNE 2010- JUNE 2012, LEEUWARDEN

Software design and implementation of multiple independently operating software agents in order to realize the Public Key Infrastructure (PKI) for electronic passports. This project was part of a proof-of-concept in order to introduce biometric security data on the electronic chip of the passport. The agents are deployed on a layered server architecture, each layer having a different level of automated behavior. I took part in the design of the system and was solely responsible for its software implementation.

Hired through UL Transaction Security.

Keywords: Java, Asymmetric Cryptography, PKI

RDW / Software Engineer

JANUARY 2011 -FEBRUARY 2012, VEENDAM

Development of a data processing solution service used to create the personalisation information for driving license applets on a chip card.

Hired through UL Transaction Security.

Keywords: Java, Swing, Asymmetric Cryptography,

ASTECO ENGINEERING / Software Developer

OCTOBER 2003 - JUNE 2008, ALPHEN AAN DEN RIJN

Asteco focuses on commercial web applications such as a custom build CMS and webshop application. Asteco also provides web hosting services. I was responsible for development and maintenance of several web applications and websites.

Keywords: PHP, Apache, Mysql

COLLIS / Software Developer - internship

AUGUST 2007 - JANUARY 2008, LEIDEN

During this internship I worked on two separate projects in order to fulfill the requirements of the Computer Science bachelor degree. I worked on software to edit smart card images in a proprietary XML format specifically designed for the German Healthcard project - EGK. These smart card images are used to emulate smart card applications and therefore make it easier to test a variety of different scenario's using both simulated as real hardware. Secondly I worked on the Collis Brand Test Tool. This is a tool to test if a payment terminal (POS or ATM) complies with EMVco's rules for EMV transactions. Besides it implements rules and checks for brand specific requirements (e.g. Visa, Mastercard, and many local supported schemes).

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Education

University of Amsterdam / No degree obtained

2012 - 2016, AMSTERDAM

Msc Software Engineering. Finished courses; Software Architecture, Requirements Engineering, Software Construction, Software Process, Software Testing & Formal Specification, Software Evolution.

Amsterdam University of Applied Sciences / Bachelor of ICT

2005 - 2010, AMSTERDAM

System & Network Engineering, Advanced Software Development, Embedded Systems.

Marecollege / HAVO

1999 - 2005, LEIDEN

N&G profile; Math, Physics, Chemistry, Biology, English and German language.

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Languages

- Dutch (native)
- English (full professional proficiency)
- German (limited)

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Achievements

- 100K+ pulls on my Docker-SSH image
- 300+ Github stars on my Docker-SSH image
  (https://github.com/jeroenpeeters/docker-ssh)

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