

Daniel Kullmann

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born 15.08.1973 in Frankfurt/Main, Germany
two children



Core Competencies

Python (11 years) Java (12 years) JavaScript (8 years) Kotlin (1 year) Scala (3 years)
Spring (6 years) Maven (5 years) Django (4 years) SAPUI5 (5 years) Java EE (8 years)
PostgreSQL DB (8 years) SAP HANA DB (8 years) MySQL DB (4 years)
Git (12 years) Linux (17 years) Agile/SCRUM (10 years)
Docker (6 years) Kubernetes (2 years) HashiCorp Nomad (0.5 years) Jenkins (5 years)
Shell (11 years)
SAP Business Technology Platform (BTP) (6 years) AWS (4 years) Azure (1 year)
Apache Kafka (0.5 years) RabbitMQ (0.5 years) Drools (2 years)

About Me

I am an experienced and passionate software developer. I work mostly with the languages Java, Python, and JavaScript. I feel most at home on the backend, but have also worked extensively with DevOps and frontend technologies. The main frameworks I am working with are Spring, and Django, and SAPUI5; the main cloud platforms are SAP BTP and AWS.

Some of my greatest strengths are debugging complex problems, the creation of tools to automate tasks, and clear communication.

Experience

October 2023 – February 2024

Python Developer

(freelance, full-time)

- Development of a B2B service for data synchronization
- Python / Tornado
- Setup of local development and testing with docker-compose
- Unit and integration tests
- Deployment on AWS and Hetzner cloud via HashiCorp Nomad
- AWS SNS, SQS, S3
- Graph DB
- RabbitMQ and Kafka
- Tickets and documentation handled via Jira and Confluence

April 2023 – September 2023

Python/Django Developer

(freelance, part-time)

- Further web development of several Python/Django web applications
- Implemented ReST APIs using Django ReST framework
- Debugging and performance improvements
- Implemented tests
- PDF export
- CSV export
- React.js and Vue.js frontends
- Building of Docker images via Gitlab
- AWS S3
- Deployment on AWS (via CDK) and Azure
- Setup of local development and testing with docker-compose
- Unit and integration tests
- Background processing using RabbitMQ and Celery
- Tickets and documentation handled via Jira and Confluence

October 2022 – June 2023

Senior Software Developer

(freelance, full-time)

- Development and maintenance of various micro-services
- Languages: Python, Java, Kotlin
- Frameworks: Spring Boot, FastAPI, Django, ImageMagicks, Tesseract OCR
- Building of Docker images via TeamCity
- Setup of local development and testing with docker-compose
- Unit and integration tests
- Deployment on Kubernetes (AWS) and AWS Lambda
- Event handling with Kafka
- Performance improvement of services
- Debugging problems in the distributed system
- Tickets and documentation handled via Jira and Confluence
- Implementation of a tool to automate testing of distributed system (sending defined task load, capturing errors, analyzing run-time behaviour)

June 2022 – August 2022

Python/Django Developer

(freelance, part-time)

- Further web development of a Python/Django web application
- Implemented ReST APIs using Django ReST framework
- CSV import and export
- PDF export
- Implemented several import scripts for various data formats
- Implemented tests
- Building of Docker images via Gitlab
- Deployment on AWS via CDK
- Tickets and documentation handled via Jira and Confluence
- Background processing using RabbitMQ and Celery

October 2019 – April 2023

Expert Interviewer

Karat (freelance, part-time)

- Conducting technical interviews for companies

- Technical interviews consist of knowledge questions in a particular subject area, project discussion, and coding exercises

July 2019 – June 2022

Software developer

e.dis AG (freelance, full-time)

- Development of various SAPUI5 applications for the SAP Business Technology Platform (BTP) in a small team of two to four developers
- Programming languages: Java, JavaScript, Python
- Deployment on the SAP BTP Platform
- Setup and deployment of SAP HANA DB schema
- Frameworks: Spring Boot, SAPUI5
- Tools and Technologies: SAP Business Technology Platform (BTP), SAP HANA, Java EE, Agile Software Development (Scrum/JIRA), Maven
- Tickets and documentation handled via Jira and Confluence

July 2021 – September 2021

Software developer

(freelance, part-time)

- Development of an extension for the low-code development environment Mendix
- Integration of that extension into the Mendix application
- Implementation of a PDF export
- Programming languages: Java
- Tools and Technologies: Mendix, Apache PDFBox

October 2013 – September 2018

Senior Software developer

SAP SE (employed)

- Development of a cloud application development framework in Scala in a distributed team of around 20 people
- Development of a health-care management system based on the above-mentioned framework, in the same team
- Development of an analytical SAPUI5 web app in an agile team of up to 15 people, using JavaScript on the client-side (with SAPUI5) and JavaScript and Scala on the server-side
- Responsible for the security-related aspects of the web app mentioned above
- Involved in many Devops topics, e.g. taking care of Jenkins server, and integration into internal product release process
- Analysis of the existing real-estate management solution of SAP ERP
- Various small projects, including performance analysis of ABAP application
- Programming languages: Scala, Python, Java, JavaScript, Node.js, Bash, SQL, ABAP
- Tools and Technologies: SAP HANA, SAPUI5, Java EE, PostgreSQL, Jenkins, Docker, Linux, cloud platforms (SAP Business Technology Platform, AWS), Django, Maven, SBT, Git, Github, IntelliJ, JBoss Drools, Agile Software Development (Scrum), Jira, Confluence

May 2012 – June 2013

Software developer and system administrator

Technical University of Denmark, Risø Campus (employed)

- Further development and maintenance of the existing software for controlling the experimental electrical power system SYSLAB
- Administration of the 30+ SYSLAB servers
- Programming languages: Java, Python, C/C++, Bash
- Tools and Technologies: PostgreSQL, Web Services, Mercurial, Eclipse, Linux, Testing, Continuous Integration (Hudson/Jenkins), IEC 61850

September 2008 – April 2012

PhD

Technical University of Denmark (employed)
(former Risø National Laboratory for Renewable Energies)

- Area: Power Engineering/Computer Science
- Title: Policy-based Communication for the Control of Power Systems
- Evaluation of a new concept for control communication in power systems
- Development of a Java library, several experiments and simulations
- Further development of the SYSLAB platform
- Programming languages: Java, Python, C/C++
- Tools and Technologies: JADE, Rule systems (JBoss Drools), Mercurial, Eclipse, Linux, IEC 61850, IEC 61970 (CIM)

October 2007 – July 2008

Software developer

Zakoa GmbH, Frankfurt/Main, Germany (employed)

- Project lead and development of several web applications using PHP and JavaScript
- Responsible for the maintenance of a Java-based web application
- Programming languages: Java, PHP, JavaScript
- Tools and Technologies: Java EE, MySQL, Zend Framework, Eclipse, Subversion, jQuery, Linux, Windows XP

January 2007 – September 2007

Sabbatical

Travelling in India, Europe and California, voluntary work

September 2002 – December 2006

Software developer

5 POINT AG, Darmstadt (employed)

- Project lead, development and maintenance of several web applications in Java and Perl
- Programming languages: Java, Perl, JavaScript, C
- Tools and Technologies: Tomcat, Java EE, PostgreSQL, MySQL, Struts, Eclipse, Subversion, jQuery, Linux, Windows 2000

November 1998 – June 2001

Scientific assistant

Institute for Computer Graphics Research IGD
Technical University of Darmstadt, Germany

- Development of a library and GUI application in C++ to access and configure 3D input devices
- Programming language: C++
- Tools and Technologies: OpenGL, Qt

October 1994 – April 2002

Master in Computer Science

Technical University of Darmstadt, Germany

- Emphasis: Software Engineering, Databases, Embedded Systems, Cryptography, Computer networks
- Master thesis done in the Fraunhofer CRCG institute in Providence, Rhode Island, Title: "Intelligent Behavior Control and World Modeling for Virtual Humans in Virtual Environments"

Languages

- German (native speaker)
- English (full professional proficiency)
- Danish (good)

Interests

Professional

- Agile software development
- Programming languages (e.g. Go, Rust, Kotlin)
- Open Source

Private

- Bicycling
- Hiking
- Playing the didgeridoo
- Sailing

Online profiles

Homepage	https://danielkullmann.de/
LinkedIn	http://www.linkedin.com/profile/view?id=90135594
Xing	http://www.xing.com/profile/Daniel_Kullmann2
Stack Overflow	https://stackoverflow.com/users/85615/daniel-kullmann
Github:	http://github.com/daniel-kullmann
Gitlab:	http://gitlab.com/danielkullmann

Potsdam, 2024-03-20

Daniel Kullmann