

# Dr. rer. nat. Simon Schmitt / Principal Software Developer >\_

## Education

### 11 / 2019: Doctorate (Dr. rer. nat.) in Computer Science

Computer Systems & Telematics, Freie Universität Berlin

Thesis: [Evaluation of distance-based indoor localization](#)

Grade: Magna cum laude

### 10 / 2013: Master's Degree in Computer Science

Freie Universität Berlin

Focusing on Computer Systems & Telematics, AI & Robotics

Minor in Process and Quality Management (Humboldt-Universität zu Berlin)

### 02 / 2012: Bachelor's Degree in Computer Science

Freie Universität Berlin

Minor in Mathematics

## Profile

### Languages

- German (native); English (fluent)

### Focus

- Fast Iterations & Small Release Cycles, while Maintaining Code Quality & Maintainability
- Infrastructure-as-Code (IaC)
- Continuous Integration & Deployment Pipelines (CI/CD)
- Automated Tests (Unit / Integration / E2e / Load / Smoke), Linting (Eslint / cfn-lint / cfn-nag), and Vulnerability Detect.
- Requirements Gathering, Stakeholder Communication
- "DevOps in Teams" (from Testing to Production)
- Close Communication with Team(s) in Remote Setups
- Continuous Improvement of Processes, Metric-driven
- DFMEA (Design Failure Mode and Effects Analysis)
- Close Cooperation with UI/UX, DevOps (formerly), Manufacturing, and other Product Teams

### Areas of Expertise

- Serverless & Event-based Architectures, Microservice-oriented & Monolithic Architectures Depending on Use-case
- API Versioning & Design (REST)
- Cost Awareness & Cost Projection
- Usage Monitoring & Abnormality Detection of Services
- Conducting Candidate Interviews
- Target group specific Documentation
- Agile Software Development (with Scrum, Kanban)
- Internet-of-Things, Wireless Communication Systems
- Location Systems, Location Based Services
- Dependable & Distributed Systems
- Robot Motion Planning, Complete Coverage

### Technologies

- Focus: Node.js, Javascript, Jest; Others: Python, Bash
- AWS Services (API Gateway / WAF, AppSync / GraphQL, CloudFormation, CloudWatch, Cognito, DynamoDB, ECS / Fargate, Glue, IAM, IoT Core, IoT Greengrass, Kinesis, Lambda, RDS, Route 53, S3, SES, SNS, SQS, Step Functions, VPC, X-Ray – alph.)
- OpenAPI (with AWS integration), Ansible, Docker
- DataDog, Jira / Bamboo / Bitbucket, Git, SonarQube, Nave
- Testing: Jest (Unit / Integration / Smoke), Cypress (E2e), Mailosaur (Email), JMeter (Load)

## Experience

### Safety io GmbH, subsidiary of MSA Safety Inc., Berlin

#### • Since 05 / 2023: Principal Software Developer

Technical Lead in a team of eight people, enabling the team & company to build, maintain, and integrate products and cloud-based services. Guiding & empowering the developer team through technical challenges while focusing on technical excellence in a whole-team approach setup.

#### • 05 / 2018 - 04 / 2023: Senior Software Developer

Focusing on Amazon Web Services (AWS), cloud-native development, microservice & event-based architecture.

Backend/shared (micro-)service development in close collaboration with production lines, (web-)application teams and software architects. Developing & maintaining five (micro-)services in production.

Product development in close collaboration with marketing and mobile application teams creating remote incident monitoring & management software for firefighting departments.

Thesis supervising for working students and (if time permits) giving lectures at university.

### Computer Systems & Telematics, Freie Universität Berlin

#### • 11 / 2013 - 04 / 2018: Research Assistant

Research: Indoor localization using wireless networks

Teaching: Computer Architecture, Operating Systems, Telematics, Dependable Systems, Distributed Systems

List of publications / awards / talks / teaching courses / supervised theses: <http://www.simonschmitt.com/>

#### • 04 / 2012 - 10 / 2013: Student Assistant

Creating an indoor localization reference system, allowing for automated, repeatable field experiments in buildings.

Project VIVE, Indoor localization of fire fighters

### Zimmer Ingenieurgesellschaft mbH, Zimmer Gruppe

#### • 09 / 2011 - 03 / 2012: Software Architect

Developing *Smart Tools* for enterprise information flow / processing, and enterprise mail assessment / rating.

#### • 11 / 2010 - 08 / 2011: Working Student

Introducing agile principles and a version control system.

## Personal Interests

Road bike racing (amateur), Sailing, Street photography

## Contact

Berlin, Germany

(Phone number can be provided)

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