

# Witte Melvin

mewitte.com | melvin.witte@gmail.com | +49 176/43531959 | Quarzweg 66, 12349 Berlin

## EDUCATION

### HASSO PLATTNER INSTITUTE

#### BSc IN IT SYSTEMS ENGINEERING

Jan 2020 | Potsdam, BB

University of Potsdam

Grade: Good, 2.0

### ECKENER-GYMNASIUM

Grad. June 2013 | Berlin, BE

Grade: Good, 1.8

Award for Outstanding Achievements  
in High School Mathematics

## LINKS

Github:// [mewitte](#)

LinkedIn:// [Melvin Witte](#)

StackOverflow:// [Melvin Witte](#)

## COURSEWORK

### UNDERGRADUATE

Human Computer Interaction - Personal  
Fabrication

(Research Asst.)

Operating Systems

(Research Asst. & Bachelor Thesis)

Database Systems

Internet Technologies

Agile Software Development in Large  
Teams

Implementing Design Patterns

## SKILLS

### PROGRAMMING

JavaScript • Ruby • Rails • Python •  $\text{\LaTeX}$   
• HTML5 • CSS3 • SQL • SQLite3

### METHODS AND TOOLS

Material Design • Agile • Fault Tolerance  
• CI/CD • AWS • Sequelize ORM •  
Terraform • Packer • Docker • Ansible •  
Linux • systemd • Raspberry Pi • CircleCI  
• GitlabCI • Zotero

### LANGUAGES

German: native

English: CEFR C1

## EXPERIENCE

### MTOMADY | DEVOPS AND INFRASTRUCTURE ENGINEER

March 2019 - Present | Berlin, BE

- Managing the AWS Infrastructure with Terraform
- Creating the AWS AMI for the Interface between several Malagasy Service Providers and the mTOMADY backend with Packer and Ansible
- Automating GSM Calls for Customer and Commission Payouts on a Raspberry Pi with USB Modems using Ruby, serviced, Ansible, SQS
- Improving the CircleCI workflows

### FREELANCE SOFTWARE DEVELOPER | SCHÄFERS OPTIK BERLIN

Oct 2019 - Present | Berlin, BE

Designing and implementing a Customer Management System specialized for Opticians using Electron, Sequelize ORM, SQLite3, Material Design and Materialize

### HPI AND DB SYSTEL | BACHELOR PROJECT AND THESIS

Oct 2017 - Sep 2018 | Berlin, BE

"Using CI/CD for QA of a Mobile Blockchain Application" - Grade: 1.3

- Developing a Hyperledger Application with JavaScript, an Android Frontend with Java and a Python RESTful backend
- Developing CI scripts for GitLab
- Developing CD scripts for Hyperledger to enable fast user tests

### TOMTOM - LIVE TEAM | INTERNSHIP SOFTWARE DEVELOPER

Jun 2016 - Dec 2016 | Berlin, BE

- Processing Data in Real Time (i.e. speed cameras, traffic jams)
- Setting up an HTML server to test Encrypted Messages with Java
- Parsing Incoming Map Data to fit the required Data Structure
- Evaluating different Message Formats to optimize sent and received Mobile Data

## RESEARCH

### HPI - OS AND MIDDLEWARE | RESEARCH ASSISTANT

Oct 2017 - Mai 2018 | Potsdam, BB

- Experiments with a **Docker based Network Simulator**, written in Python
- Preparing presentations and sources on Blockchain topics

### HPI - HUMAN COMPUTER INTERACTION | RESEARCH ASSISTANT

Feb 2017 - Oct 2017 | Potsdam, BB

- Developing **TrussFormer**, a SketchUp Plugin written in Ruby
- Building large-scale Kinetic Structures
- Simulating Physical Forces on the Model
- Create 3D-Blueprints for different Parts of the Model

## PUBLICATIONS

- [1] R. Kovacs, A. Ion, P. Lopes, T. Oesterreich, J. Filter, P. Otto, T. Arndt, N. Ring, M. Witte, A. Synytsia, et al. Trussformer: 3d printing large kinetic structures. <https://dl.acm.org/doi/10.1145/3242587.3242607>, 2018.

## EXTRA(CURRICULAR ACTIVITIES)

### **HPI - WEBSITE CLUB**

- Maintaining and improving a Student Portal with Rails
- Updating a tool to plan the Focus Areas of your Studies with JavaScript

### **PERFORMANCE-ORIENTED VOLLEYBALL**

- Playing performance oriented Volleyball since I was 7
- Currently playing 3rd Bundesliga
- Leading the Youth Team of the BR Volleys as Team Captain for 6 Years
- 10 Berlin Championship titles
- 2 Bronze Medals at the German Youth Championship
- 8 Participations at German Youth Championships (Indoor and Beach-Volleyball)
- Playing for the Berlin Representative Youth team

### **COACHING VOLLEYBALL**

- Indoor: Coaching a Youth Team for the last 2 years, twice a week
- Creating Training Schedules for the Athletes
- Organizing Youth Tournaments
- Beach-Volleyball: Coaching an adult Training Group, once a week

### **CULTURAL EXCHANGES**

- French-German School Exchange in 9th grade
- Visiting Paris and Hosting my French Guest for 2 weeks, living in guest families
- Israeli-German Volleyball Club Exchange in 2019
- Visiting different parts of Israel for 10 days
- Hosting my Israeli Guest for 2 weeks