

# Witte Melvin

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## 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](#)

## 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 •  $\LaTeX$   
• HTML5 • CSS3 • SVG • 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: fluent, CEFR C1 certified

## 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 **SSL Server** to **test Encrypted Messages** with **Java**
- **Parsing Incoming Map Data** to fit the required **Data Structure**
- **Evaluating** different **Message Encryptions** and **Compressions** 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 /textbfBlockchain 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