


Experience

Site Reliability Engineering Intern **Google** **Jul 2019 – Oct 2019**

Ads Frontend SRE Team, London, UK

- Extended automation platform in use by 100+ internal services to manage capacity changes in global load balancer
- Implemented CLI to enact temporary capacity changes, streamlining incident response for on-call engineers
- Wrote design documents, managed their review, and led conversations with involved teams

Graduate Research Assistant **Hasso Plattner Institute** **Apr 2018 – present**

- Currently researching causal structure learning on time series and working toward publication
- Spearheaded research project on unsupervised anomaly detection on time series, developing a robust benchmarking pipeline as main contributor, currently at 100+ stars on  [Github](#)

ML Engineering Intern **SAP Labs** **Oct 2017 – Apr 2018**

Conversational AI Team, Innovation Center Silicon Valley

- Developed new models for custom entity extraction in NLP, improving accuracy by more than 10%
- Researched and implemented novel methods of representing text utterances and their intents, using these for visualization in an internal data science evaluation tool
- Took initiative to simplify this tool's deployment with Docker and set it up for a team from another department at SAP Singapore, earning internal award "SAP Appreciate" for my work
- Worked with Python, Tensorflow, Django, Angular and Go

Lead Developer "Judge it!" **tAPPING Forward** **Nov 2015 – Sep 2017**


- Responsible for developing social networking app on Android and iOS with 10,000+ downloads
- Implemented Java EE backend and deployed entire infrastructure to AWS

Education

Potsdam, Germany **Hasso Plattner Institute** **Apr 2018 - Exp. Apr 2020**

- M.S. in IT-Systems Engineering, best-ranked CS program in Germany (CHE 2018). Current average: 1.4 on German grading scale (1 is best, 5 is worst)
- Master's project "Design and Implementation of a Causal Inference Pipeline"
 - Developed a highly modular and distributed pipeline for running and analyzing statistical experiments
- Coursework: Deep Learning, Representation Learning, Causal Inference, Distributed Data Management, Data Preparation, In-Memory Data Management, Stochastic Processes, Bayesian Modeling

Potsdam, Germany **Hasso Plattner Institute** **Oct 2014 - Sep 2017**

- B.S. in IT-Systems Engineering. Final grade: 1.7 on German grading scale (1 is best, 5 is worst)
-  [Thesis](#) on class imbalance in feature selection for Machine Learning, final grade 1.0 (best possible)
- Co-wrote, published and presented [paper](#) at ECML PKDD 2017
- Coursework: Machine Learning, Big Data Analytics, Database Systems, Software Architecture, Computer Graphics, Theoretical CS, Competitive Programming, Operating Systems, Data Structures & Algorithms

Skills

- **Programming Languages:** Python, Java, Swift, R, C++, SQL
- **Frameworks:** Tensorflow, PyTorch, Java EE, Django, Scikit-learn, NLTK
- **Tools:** PostgreSQL, MySQL, AWS, Docker, Jupyter, Git

Additional Experience and Volunteering

- **Organizer [HackHPI 2016](#), [2017](#), [2018](#), [2019](#):** Organized four successful hackathons with more than 100 participants and a budget each time well beyond \$10,000.
- **[HackZurich 2017](#) & [2018](#):** Finalist in both years, selected out of 150+ teams to pitch in front of all attendants
- **President [Mobile Development Club](#) (Oct 2016 - Sep 2017):** Supervised and advanced development of our university's app for looking up cafeteria plans, timetables, and accessing internal network drives. Organized biweekly meetings to discuss and share mobile development projects.