Robin M. Schmidt

+49 (176) 23348219
robin.schmidt.97@web.de
Robin M. Schmidt
linkedin.com/in/schmidt-robin
github.com/SirRob1997
robinschmidt.netlify.com

Research and Work Experience

Max Planck Institute for Intelligent Systems & University of Tübingen Oct 2019 – Mar 2020
Research Internship in the Probabilistic Numerics Group of Prof. Dr. Philipp Hennig [Python, Shell, LaTeX]

- Benchmarked & Compared state-of-the-art Deep Learning Optimizers using the framework DeepOBS
- Solved the problem of missing reference points for new optimization algorithms
- Enabled DeepOBS as competitive benchmarking suite by creating new optimization baselines
- Advanced development of DeepOBS and provided scripts for bulk comparisons
- Grade for Credit (german): **1.0**, approximately equivalent to an "**A**" grade (UK)

IBM Germany Research & Development Aug 2019 – Oct 2019
Extreme Blue Internship supervised by Martin Oberhofer and Dr. Manfred Oevers [Python, REST, Gremlin]

- Researched possibilities for Master Data Management (MDM) with Internet of Things (IoT) use cases
- Managed the team of interns regarding tasks, deadlines, reviews and presentations
- Developed instance level product master data representations through a RESTful JSON API written in Python
- Developed a graph-based visualisation based on React.js for a prototype in the healthcare sector
- Worked closely with offering management in the USA to deploy the obtained improvements
- Presented the results at a conference in Cluj-Napoca, Romania

ENisco GmbH & Co. KG Jun 2018 – Sep 2018
Bachelor Thesis supervised by Prof. Dr. Antonius van Hoof [Java, SQL, LaTeX]

- Conceptualised and developed a highly cost-efficient single product tracking system
- Custom-tailored the system successfully for a customer with limited resources in the USA
- Grade for Credit (german): **1.4**, approximately equivalent to an "**A**" grade (UK)

Cooperative State University Baden-Württemberg Stuttgart Oct 2017 – Jun 2018
Research Internship supervised by Prof. Dr.-Ing. Olaf Herden [Shell, LaTeX]

- Compared state-of-the-art NewSQL databases on the categories of the Business Readiness Rating
- Solved the problem of missing reference points for the appropriate NewSQL database selection
- Grade for Credit (german): **1.5**, approximately equivalent to an "**A**" grade (UK)

Eisenmann SE: Research & Development Oct 2015 – Oct 2018
Cooperative Studies: Computer Science [Java, JS, HTML, CSS, LaTeX]

- Research & Development projects in the field of Manufacturing Execution Systems
- Approximately equivalent to **5 internships with a duration of 3 – 4 months each**
- Quantified and implemented appropriate Key Performance Indicators
- Significantly improved the data analysis possibilities for customers by developing state-of-the-art visualisations
- Published several whitepapers on these topics under a non-disclosure agreement

Education

University of Tübingen | *M.Sc. – Computer Science* (Oct 2018 – Present) Tübingen, Germany

DHBW Stuttgart | *B.Sc. – Computer Science* (Oct 2015 – Oct 2018) Horb, Germany

Skills

Languages: German (native), English (business fluent), Latin (small latinum certificate), Japanese (beginner)

Programming: Python, Java, C#, Prolog, R, SQL, Gremlin, HTML5, CSS3, JavaScript

Frameworks & Tools: Flask, React, TensorFlow, NumPy, Pandas, Version Control, Adobe Suite, Linux, Docker, Kubernetes, Microsoft Office, LaTeX

Databases: MySQL, Oracle, JanusGraph, MongoDB, VoltDB, NuoDB, CockroachDB

Selected Projects & Contributions

DeepOBS: Optimization Benchmarking Suite – Contributed Baselines, Scripts and improved Software Quality

App2Night: Location based mobile App to create, comment and rate user generated events to find the best event

SiteScrawler: Webapp to provide users with relevant news articles based on customisable topics of interest

ArXiv submissions

[1] Robin M. Schmidt. *Recurrent Neural Networks (RNNs): A gentle Introduction and Overview*. 2019. arXiv: 1912.05911 [cs.LG].