Robin M. Schmidt

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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
- ○ 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 results
- ○ 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]

- ○ Topic: "*Conceptual design and Implementation of a Single Product Tracking in a press hardening production line*"
- ○ Published under a non-disclosure agreement (NDA) due to customer specific problem specification
- ○ 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]

- ○ Topic: "*Evaluation of Open Source New SQL databases for modern application scenarios*" ⧉
- ○ Compared state-of-the-art NewSQL databases on the categories of the Business Readiness Rating
- ○ 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**
- ○ Whitepaper topics include but are not limited to "*Selection and Implementation of Key Performance Indicators*" or "*Improvement of the Data Analysis*" (all published 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

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