

Robin M. Schmidt

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RESEARCH AND WORK EXPERIENCE

- **Max Planck Institute for Intelligent Systems & University of Tübingen** Oct 2019 – Present
Research Internship with Prof. Dr. Philipp Hennig and Frank Schneider [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
- **IBM Germany Research & Development** Aug 2019 – Oct 2019
Extreme Blue Internship [Python, Flask, REST, Gremlin]
 - Researched possibilities for Master Data Management (MDM) with Internet of Things (IoT) use cases
 - 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 [Java, SQL, \LaTeX]
 - Topic: “*Conceptual design and Implementation of a Single Product Tracking in a press hardening production line*” (German grade: **1.4**, approximately equivalent to an “A” grade)
 - Published under a non-disclosure agreement (NDA) due to customer specific problem specification
- **Cooperative State University Baden-Württemberg Stuttgart** Oct 2017 – Jun 2018
Research Internship with Prof. Dr.-Ing. Olaf Herden [Shell, \LaTeX]
 - Evaluated state-of-the-art NewSQL databases on the categories of the Business Readiness Rating
 - Topic: “*New SQL Databases: An evaluation of Open Source New SQL databases for modern application scenarios*” (German grade: **1.5**, approximately equivalent to an “A” grade) ☞
- **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, NumPy, Pandas, Version Control, Adobe Suite, 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].