

# 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 102 state-of-the-art Deep Learning Optimizer choices and configurations
- Solved the problem of missing reference points for new optimization algorithms
- Enabled DeepOBS as competitive benchmarking suite by creating new optimization baselines and rankings
- Took the initiative and advanced development of DeepOBS by fixing very impactful bugs and developing features
- 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 to succeed regarding our tasks, deadlines, reviews and presentations
- Developed more effective instance level product master data representations through a RESTful JSON API
- Developed a graph-based visualisation based on React.js for a prototype in the healthcare sector
- Took the initiative to work closely with offering management in the USA to deploy the obtained improvements
- Presented the results at a conference for stakeholders and IBM-leaders 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 for limited systems
- Custom-tailored and deployed the system successfully for a customer with limited resources in Tennessee, USA
- Took the initiative to solve arising problems on premise in the USA regarding the data collection
- 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  $\checkmark$
- 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 $\checkmark$

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

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**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

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