

DONALD PFAFFMANN

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WORK EXPERIENCE

[Daimler Truck AG](#) [Python]

February 2020 - September 2020

Bachelor Thesis Intern

Stuttgart, Germany

- Implemented Gradient Boosted Trees and FP-Growth, utilizing them in a combined effort to make highly structured and high dimensional data accessible for the purposes of association rule mining. Major challenges were data curation and workflow design. The thesis provided several interesting and useful rules as validated by a domain expert.

[Springer Nature Technology and Publishing Solutions](#) [Java]

February 2019 - August 2019

Intern

Pune, India

- Implemented a Convolutional Neural Network (CNN) that classifies plain text (e-mails) into time related categories using a static word embedding model. Major challenges were implementing and testing proper techniques of data pre-processing and machine learning algorithms. Work on this module finished with the CNN classifier achieving a F-Measure of 85% and the provision of a Named Entity Recognizer, which is capable of extracting and normalizing time entities.

STUDY PROJECTS

[Mario-AI](#) [Java], Grade: 1.0¹

2nd year

- Implemented an autonomous agent operating Mario through randomly generated levels by utilizing A*-search in a team of two.
- The major challenge was coming up with a proper heuristic that maximizes the score of Mario.
- Placed third in an official competition held among all course members.

[Campusboard-App](#) [Ionic, Angular, TypeScript], Grade: 1.0

3rd year

- Contribution to the further development of the official mobile application of the university in a group of four.
- Familiarizing with existing code and learning TypeScript were the major challenges.
- Implemented the functionality of capturing present students in exams by scanning their student license with nfc in a team of two.

[DoublingBalls - Android mobile game](#) [Java], Grade: 1.0

2nd year

- Developed a *Run & Gun* game for Android smartphones in a team of two.
- Major challenges were internal state management and keeping multiple threads (visualization, calculation) synchronized.
- The resulting game could be published in the PlayStore as is.

EDUCATION

Saarland University

Saarbrücken, Germany

Pursuing M.Sc. in Data Science and Artificial Intelligence

October 2020 - now

University of Applied Sciences Kaiserslautern

Zweibrücken, Germany

B.Sc. in Applied Computer Science, GPA: 1,4²

October 2016 - October 2020

¹On a scale of 1-5 (university level), where 1 is the best grade; approximately equivalent to an "A" grade.

²Approximately equivalent to an overall "A-" grade.