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# Daniel Thevessen

Authorized to work in the US, no sponsorship necessary

danielthevessen
danthe96

## Experience

**Research Assistant** — **Hasso Plattner Institute** — **Apr 2018 – present**

- Co-authored publication as part of research project on unsupervised anomaly detection on multivariate time series
- Researching causal inference, currently focusing on causal structure learning on time series

**ML Engineering Intern** — **SAP Labs** — **Oct 2017 – Apr 2018**

Conversational AI Team, Innovation Center Silicon Valley

- Developed new models for custom entity extraction in NLP, improving accuracy by more than 10%
- Researched and implemented novel methods of representing text utterances and their intents, using these for visualization in an internal data science evaluation tool
- Automated tracing of compliance with internal product standards by developing CI/CD tool
- Led effort on and wrote framework for performance testing on intent matching service
- Second prize in internal SAP Leonardo hackathon by demonstrating an innovative Blockchain solution
- Worked with Python, Tensorflow, Django, Angular and Go

**Lead Developer "Judge it!"** — **tAPPing Forward** — **Nov 2015 – Sep 2017**

- Responsible for developing social networking app on Android and iOS with 10,000+ downloads
- Implemented Java EE backend and deployed entire infrastructure to AWS

## Education

**Potsdam, Germany** — **Hasso Plattner Institute** — **Apr 2018 - Exp. Jan 2020**

- M.S. in IT-Systems Engineering. Best-ranked CS program in Germany (CHE 2018)
- Coursework: Deep Learning, Representation Learning, Causal Inference, In-Memory Data Management

**Potsdam, Germany** — **Hasso Plattner Institute** — **Oct 2014 - Sep 2017**

- B.S. in IT-Systems Engineering. Converted GPA: 3.7 (1.7 on German grading scale)
- **Thesis on class imbalance in feature selection for Machine Learning**, final grade 1.0 (best possible)
- **Research project Predictive Diagnostics**
  - Researched relevance-redundancy relationships in feature selection for Machine Learning, developing an interactive exploration tool that earned excellent feedback from our partner BOSCH
  - **Co-wrote, published and presented paper at ECML PKDD 2017**
- Coursework: Machine Learning, Big Data Analytics, Database Systems, Software Architecture, Software Modeling, Theoretical CS, Competitive Programming, Operating Systems, Data Structures & Algorithms

## Skills

- **Programming Languages**: Python, Java, R, Swift, C++, SQL, Javascript
- **Frameworks**: Tensorflow, PyTorch, Java EE, Django, Scikit-learn, NLTK
- **Tools**: PostgreSQL, MySQL, AWS, Docker, Jupyter, Git

## Publications

- Kirsch L, Riekenbrauck N, Thevessen D, Pappik M, Stebner A, Kunze J, Meissner A, Shekar AK, Müller E. Framework for Exploring and Understanding Multivariate Correlations. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases 2017 Sep 18 (pp. 404-408). Springer, Cham.

## Projects

- **News X-Ray** danthe96/newsX-Ray Chrome extension verifying potential "fake news" by identifying sentences in news articles originally from agency reports using semantic sentence similarity. **Finalist project (out of 150+ submissions) at HackZurich 2017**. *Python, NLTK, Javascript*

## Volunteering

- **President Mobile Development Club** (Oct 2016 - Sep 2017): Supervised and advanced development of our university's app for looking up cafeteria plans, timetables, and accessing internal network drives. Organized biweekly meetings to discuss and share mobile development projects.
- **Organizer HackHPI 2016, 2017, 2018**: Organized three successful hackathons with more than 100 participants and a budget each time well beyond $10,000.