Marc-Anthony Bauer

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WORK EXPERIENCE

Aflorithmic

ML Research Engineer   **Mar 2022 – Aug 2022**

Research Engineer Intern   **Sep 2021 – Dec 2021**

- Built a flexible ad-hoc search engine for TTS voices and sound templates
- Implemented a program for generative personalised children's audiobooks, reducing time of creation for each audiobook from 2 hours to 30 seconds
- Wrote customer-oriented IPA pronunciation fixes
- Implemented a microservice for finite-state-based text normalisation
- Created TTS scripts, taking into account complex issues such as phoneme balance, topical coverage and readability

Department of Sociology LMU

IT-Support Specialist   **Jul 2018 – Jul 2019**

- Managed 150 computers through Active Directory, translated the German web presence to English, fully implemented in CMS Fiona and HTML/CSS
- Revamped and partially automated the lending process for software, field recorders, etc.
- Trained a successor for daily responsibilities of IT support and website management

Sigma Aldrich / Merck KG

Interpreter   **Nov 2017 – Dec 2017**

- Interpreted SAP-Systems, processes and procedures from German to English and vice-versa to enable functional transfer to the Philippines

EDUCATION

Ludwig-Maximilans-Universität München

Major: Computational Linguistics (CL), Minor: Computer Science   **Sep 2017 – Sep 2022**

- GPA of 1.72 (1.0 is the best, 5.0 the worst)
- Gained an understanding of a variety of supervised and unsupervised machine learning algorithms and how to apply them to complex tasks, such as named entity recognition and information retrieval
- Learnt methods for processing syntax and morphology using NLTK and SpaCy
- Developed computational and logical thinking through discrete mathematics and semantics
- Bachelors Thesis "Towards Hate Speech Detection Benchmarking": investigated, filtered and combined existing hate speech datasets to overcome their individual biases and shortcomings
- Minor in computer science covering algorithms and data structures, operating systems, databases and practical training in software engineering

The University of Hong Kong 香港大學   **Sep 2019 – Dec 2020**

- Selected as one out of three students to spend a semester abroad at the University of Hong Kong in autumn 2019
- Led a group project on heart disease prediction for the course "Statistical Learning" using R Studio
- Further participated in courses on computer vision, linear algebra and Cantonese

National Chengchi University 國立政治大學   **Feb 2020 – Jun 2020**

- Prototyped a craigslist redesign for a User Experience group project
- Participated in a Mandarin course, applying learnt language skills on a day-to-day basis

VOLUNTEER EXPERIENCE

Computational Linguistics Student Association

Member of the Student Association   **Apr 2018 – Jul 2021**
Elected Student Ambassador   **Sep 2018 – Sep 2019**

- Elected head of the Computational Linguistics student association, representing more than 300 students in two student councils
- Revamped parts of the master's programme, allowing students without prior programming experience to take select undergraduate courses
- Oversaw financing of smaller conferences and university-wide festivals
- Helped issue press statements regarding global topics such as climate change and nationalism

SKILLS & INTERESTS

- **Tech:** Python, Java, HTML, CSS, JavaScript; SpaCy, PyTorch, AWS
- **Languages:**
  - Native: German, English
  - Basic: Spanish, Chinese, French
- **Interests:** Reading, travelling and making music in Ableton Live