Tassilo Neubauer

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EDUCATION

Karlsruhe Institute of Technology   Karlsruhe, Germany
B.S. Computer Science, Grade Average 3.1 on a scale from 5 (lowest) to 1 (highest).   October 2020–December 2023

- *Thesis:* Machine Learning-based Root Cause Analysis for Intelligent Production.

COURSES

- **Math:** Linear Algebra I & II, Real Analysis I & II, Probability Theory, Numerical Math for Computer Scientists
- **Computer Science:** Programming (Java), Software Engineering (Java), Programming Paradigms, Databases, Cognitive Systems, Theory of Computer Science I & II, Algorithms I & II, Advanced Algorithmic Programming, Operating Systems, Computer Networks among others
- **Physics:** Experimental Physics I & II, Modern Physics for Computer Scientists

EXPERIENCE

- **Freelance Software Developer**   Online, January 2024–Current
  Working on a data scraping job with Exosome Consulting.

- **Stanford Existential Risk Initiative**   Online, November 2022–December 2022
  Participated in John Wentworth's agent foundations training program. Conducted numerous exercises in conceptual research.

- **Forschungszentrum Informatik, Karlsruhe, Germany**   March 2022–December 2022
  Research assistant focusing on generating visualization recommendations using an evolutionary algorithm combined with random forests and simple feedforward neural nets, based on artificial human feedback.

- **Karlsruhe Institute of Technology, Karlsruhe, Germany**   April 2022–September 2022
  Collaborated with a team of four students to develop a C++ GUI plugin for the ArmarX distributed robot framework. A standout contribution of mine was the design and implementation of a foldable timeline that visually represented the robot's hierarchically structured memory over time, leveraging Qt5 for the basic components.

- **Karlsruhe Institute of Technology, Karlsruhe, Germany**   September 2021–December 2021
  Research assistant at the Chair for Political Economy. Sped up time to run online experiments for the chair from weeks to hours. I set up hosting of the experiments on Heroku and recruitment of participants through Prolific.

EXTRACURRICULARS

- **Coorganizer of local EA group Karlsruhe**   April 2021–November 2023
  Booking rooms, went through the paperwork to become an official university group.
- **Member in AI-Safety-Reading-Group**   October 2019–June 2020
  Learned about risks from advanced artificial intelligence. Read Human Compatible, Superintelligence and Rationality from AI to Zombies.
- **Commenting and occasionally posting on Metaculus and later Lesswrong**   June 2019–Current
  ~ 2000 predictions on ~ 600 questions on Metaculus. Currently active only on Lesswrong.

PROJECTS

- Predicting the S&P 500 (Python, Numpy, Pandas), by sampling from past market data. I used this to win money on the Almanis prediction market. This method worked better for me than just eyeballing trends.

- fatebook.el. An Emacs plugin to create and upload predictions to Fatebook. I created the tool for my own use.