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WORK EXPERIENCE

GWDG | AI Engineer

Göttingen, Germany

Sep 2024 – Current

- Developed a Protein AI App using AlphaFold on the Cluster HPC, parsing PDB file results with multiple parameters and allowing users to chat for further clarification.
- Designed and implemented both frontend and backend with Next.js, and used Bash scripting for backend operations on the HPC Cluster.
- Utilized AWS S3 Bucket to store encrypted model results and user data.

University of Göttingen | Software Engineer

Göttingen, Germany

Feb 2024 – March 2025

- Developed the website for the [2 Million Euro](#) University research project on [Electronic Corpus of Homilies in Old English \(ECHOE\)](#) by building the frontend based on mockups using Vue.js.
- Set up the backend with FastAPI and REST API, containerized the application with Docker, and configured NGINX for load balancing.
- Administered virtual machines running Debian OS to deploy app containers and automated daily corpus updates using Bash scripts.

UMG | Software Engineer

Göttingen, Germany

Jun 2023 – Aug 2023

- Developed the Front end of an eXplainable AI project [CLARUS](#) using the React JavaScript framework Cytoscape.js for Graph theory (network) for visualization and analysis.
- Working with PyTorch Geometric on the backend for updating the nodes of the UI using REST API.

EDUCATION

University of Göttingen | M.Sc. Applied Data Science

Göttingen, Germany

Oct 2022 - Oct 2025 (Expected)

- **Current Focus:** Deep Learning for Computer Vision, Advanced Statistical Inference, Linear Models and Mathematical foundations, Deeping learning in NLP, Language as Data.

Qubit by Qubit | Quantum Computing School

Santa Barbara, California

Sep 2024 – May 2025

- Learning Quantum Computing using Cirq. Python Two Semester program at Qubit by Qubit

Re:coded | Front End Bootcamp

Istanbul, Turkey

Mar 2022 – Aug 2022

- Built a cooking website as a capstone project which connected potential customers with household chefs. Worked with a team of 4 to ensure responsiveness of the website and the UI was adapted according to current market competitors.
- Mastered the basic website building blocks HTML & CSS & JavaScript and worked on multiple website projects with Git as well as built productive, scalable front-end website with React.

Bilkent University | Bachelor in Electrical and Electronics Eng.

Ankara, Turkey

Sep 2017 – Aug 2021

- **Main Focus:** Machine Learning, Artificial intelligence, Computer Networks, Principles of Engineering Management, Feedback Control Systems, Microprocessors, Digital and Analog Circuit Theory Design, Power Electronics and EEE Projects Design.
- **Videos:** [Fire Alarm System with FPGA and Arduino](#) , [FlyBack converter \(Charing Adapter\) 12V/4W Circuit](#)

SKILLS, PROJECTS, CERTIFICATIONS & INTERESTS

Technical Skills:

Proficient: Python, Java, Java Script, Typescript, MATLAB, Assembly.

Frameworks used: Flask + Pytorch + Selenium (Python), React + Next.js (Java Script), Pytorch, Docker.

Noteworthy Projects (Full details available on my personal website):

- Tested a thesis about whether training an agent on more complex environments helps obtain better results than a normal baseline model, using multiple Reinforcement Learning algorithms such as DQN and DDQN on customized gaming environment- Lunar Lander v2. env - Python/openai gym, Pytorch, Stable baseline - 2022.
- Multi-BERT Model Training on three different Tasks using Annealed sampling
- P2P Program that uses socket programming to send and receives queries to neighboring nodes without overflowing nodes with repetition- Python/ Socket Programming - 2021.
- Visitor Tracking system with facial recognition (achieved 89% accuracy) that opens a door automatically - Raspberry pi, Python/ OpenCV, Google firebase, C++ / Arduino - 2021.

Certifications: [Neuromatch Deep Learning Summer School 2022](#), [Re:coded Front End Bootcamp 2022](#),

[Explainable Ai Summer School XASSI 2022](#), [GWDG GPU programming with CUDA](#), [Deep Learning with GPU Cores](#)