Hakan Duran

Full Stack Developer - Computer Engineer & Scientist

hakanduran98 [in]
+491776247093 📞
contact@hakanduran.me ✉
🐙 github.com/hakanduranC

EDUCATION

Technical University of Munich	**2022 – Present**
Master of Science in Computer Science	*Munich, Germany*
Atilim University	**2016 – 2021**
Bachelor of Science in Computer Engineering, GPA: 3.68/4.00 (Top of the Department)	*Ankara, Turkey*
Poznan University of Technology	**2019 – 2020**
Exchange student (Erasmus+) in Computer Science	*Poznan, Poland*

RECENT COURSEWORK

- Advanced Topics of SW Engineering
- Requirements Engineering
- Fundamentals of AI
- Intern-Computational Surgery
- Intern-Resilient Cognitive Systems
- DevOps Engineering
- Protein Prediction
- Requirements Engineering
- Engineering Resilient Cognitive Systems
- AWS Cloud Partitionar (Ongoing)

WORK EXPERIENCE

Everstox GmbH — **May 2024 – Present**
IT & Media Working Student · Part-time — *Munich, Germany*

- Responsible for office IT infrastructure, including hardware management, network troubleshooting, and software deployments.
- Managed Microsoft Intune for device enrollment, compliance policies, and security configurations.
- Developed and maintained AWS Lambda functions for automation tasks and system integrations.
- Handled AWS secret key management, ensuring secure storage and controlled access.
- Worked with Terraform to provision and manage cloud resources efficiently.
- Provided technical support for employees, troubleshooting software and hardware issues.
- Assisted in IT asset tracking, procurement, and documentation.

Technical University Of Munich — **November 2022 – March 2024**
Full Stack Web Developer - Hiwi Assistant · Part-time — *Munich, Germany*

- Participated in TUM's CommonRoad project, focusing on web application development and maintenance.
- Implemented a Docker-driven, master-worker architecture for handling academic and competition submissions.
- Applied React and Material UI for front-end development; Django and PostgreSQL for back-end.
- Managed full spectrum of front-end, back-end, and DevOps tasks
- Played a key role in establishing the submission system infrastructure for the ARCH project, applying innovative tech solutions.

Blickfeld Gmbh — **October 2021 – March 2022**
Software Developer Intern · Full-time — *Munich, Germany*

- Developed software solutions to enhance efficiency and coordination across teams at Blickfeld GmbH.
- Involved in an advanced Django project, focusing on creating and implementing endpoints in the Django Rest API.
- Engineered various algorithms for these endpoints to optimize functionality.
- Created React applications capable of utilizing the developed endpoints.
- Gained practical experience with Docker.
- Proficient in setting up and managing Git pipelines.

PROJECTS

FlexfitAI (TUM DevOps Course Project) — **March 2025 – Present**

- Key contributor to a team project designing and implementing a full-stack web application based on modern DevOps principles, featuring a Generative AI component.
- Engineered a Retrieval-Augmented Generation (RAG) system using Python, LangChain, and a vector database (e.g., Weaviate) for the GenAI module.
- Implemented containerization for all application microservices (client, server, GenAI, DB) using Docker and Docker Compose.
- Developed and managed CI/CD pipelines with GitHub Actions for automated building, testing, and deployment to a Kubernetes staging environment.

- Orchestrated deployment using Kubernetes (Helm/raw manifests) and configured system observability with Prometheus and Grafana.
- Tech stack included: Client (React), Server (Spring Boot), Python (GenAI), Docker, Kubernetes, GitHub Actions, Prometheus, Grafana.

Connactz SetList Integration with Spotify· Project Link   **October 2023 – October 2024**
- Participated in an TUM Interdisciplinary Project aimed at developing an internal tool for the Connactz platform.
- Enabled users to create their own setlists using Spotify, leveraging Angular and Nodejs in the technology stack.

CommonRoad and ARCH Submission Systems · Project Link   **November 2022 - March 2024**
- Contributed to projects using Django, React, S3 Buckets, PostgreSQL, RabbitMQ, Swagger, Docker, Gitlab CI.
- Master-Worker Architecture systems for processing, grading, and storing submissions, and facilitated user competitions.

E-Farmers   **January 2021 - June 2021**
- Developed an e-commerce graduation project, featuring a React.js frontend and Django REST API backend.
- Integrated smart box design using Arduino, with PostgreSQL and Amazon RDS for database management, Amazon S3 for storage, and Heroku for deployment.

SKILLS

Programming Languages: Python, C/C++, C#, Java, JavaScript, SQL
Frameworks & Libraries: Django, React, Angular, Spring, Node.js (basic), .NET Core (basic), Flask (basic), LangChain
Tools & Cloud Technologies: Git, GitHub Actions, GitLab CI, Docker, Kubernetes, Helm, Prometheus, Grafana, PostgreSQL, MySQL, AWS (S3, RDS, Lambda), Terraform, Weaviate
Concepts & Methodologies: RESTful APIs, Microservices, Containerization, DevOps (CI/CD), Cloud-Native Deployment, Observability, RAG (Retrieval-Augmented Generation), Agile/Scrum, Security & Privacy
Academic Interests: AI & Deep Learning, Large Language Models, Safety, Resilient Cognitive Systems
Languages: Turkish (native), English (C1 certified), German (A2 in use)
Hobbies & Interests: Game Development, Web Applications