

Muhammad Ahsan

Software Engineer | Full-Stack Developer

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Berlin, Germany

Work Experience

Software Engineer *Civiltfleet-Support eV, Berlin*

Jun 2024 – Present

- Implemented **CI/CD pipeline** by using GitHub Actions for Continuous Integration and **ArgoCD** with **Helm** charts and **Ingress** controllers for GitOps-based Continuous Delivery to a **Kubernetes** cluster.
- Developed and maintained full-stack applications using **Next.js**, **Node.js**, and **Python**; integrated **FundraisingBox** into Next.js and WordPress platforms, and leveraged **Brevo** to design and deploy high-impact fundraising campaigns that optimized donor engagement and increased contributions.
- Designed and developed **PartnerApp**, a full-stack application built from scratch to automate and streamline fund transfers between non-profit organizations—eliminating manual workflows; deployed and maintained the solution, which drew interest from multiple external organizations; inspired by the commercial platform **Optimy**.
- In addition to full-stack development, handled IT administration tasks including managing **Mailcow** for company email services, configuring and maintaining employee email accounts, and providing **technical support** for hardware, software, and internal platform issues across the organization.

Junior Full-Stack Engineer *Startrum*

Sep 2023 – Apr 2024

- ConsortMe**: Developed a robust inventory management system for consortme.com using Next.js and **ShadCN** UI on the frontend, with a **Node.js (TypeScript)** backend, **Prisma** ORM, and **PostgreSQL**; implemented file handling with **AWS S3** and deployed the application via **Docker** on **AWS EC2**.
- BillTracker** AI: Built a legislative tracking platform that uses **OpenAI LLMs** to analyze bills passed in assemblies, notify users about relevant legislative changes, and allow them to chat with existing bills or draft tailored proposals; used **Weaviate** for vector storage and integrated intelligent user interaction features.

Junior Backend Engineer *Secomind.AI*

May 2022 – Oct 2022

- Collaborated directly with the CTO to build foundational backend features for **30mins.com**, a scheduling platform similar to Calendly.
- Developed a round-robin scheduling algorithm and implemented a flexible meeting booking system.
- Built scalable **GraphQL APIs** using TypeScript and MongoDB to manage user data and scheduling operations efficiently.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java

Frontend: React, Next.js, Vue.js, HTML5, CSS3

Backend: Node.js, Nest.js, Express, GraphQL, Django, Flask REST APIs

Databases: MongoDB, MySQL, PostgreSQL, Redis

DevOps/Cloud: AWS, Azure Kubernetes, Docker, ArgoCD, Linux, Traefik

Integrations: OpenAI, Gemini, SendGrid, Algolia, Elasticsearch

Testing: Jest, Cypress, Vitest, Playwright, Mocha, Postman

Tools: Git, GitHub, GitLab, Jira, Notion, Agile/Scrum

Projects

Partner App | *Next.js, PostgreSQL*

Internal tool for funding management; streamlined workflows and reporting.

Helsingør Museum Chatbot | *Next.js, Pinecone, langchain, Openai*

AI chatbot enabling interactive cultural exploration.

Metaroom E-Learning | *Node.js, Express.js, MongoDB, Next.js, AWS*

Full-stack e-learning app with user auth and content delivery.

Tweet Sentiment Analysis | *Python, Django, RoBERTa*

Classified 10,000+ tweets using NLP model.

Education

M.Sc. in Artificial Intelligence

Technical University of Cottbus (BTU), Germany

Apr 2024 – Present

B.Sc. in Computer Science

Sukkur IBA University (SIBAU)

Jan 2019 – May 2023

Full Scholarship, 3rd Place – SumoWar Tech Competition 2023

Key Certifications

- Web Tech & Django
- Neural Networks & Deep Learning
- Supervised Machine Learning
- Intro to Docker/K8s/OpenShift

- Node.js & React (Cloud)
- Intro to SQL (Coursera)
- Relational DBs in SQL (DataCamp)
- JS Algorithms & DS

- Git & GitHub (Amigoscode)
- CS50W: Web with Python/JS

Recommendations

Qiong Wu, Lead IT Architect & Software Engineer #LeaveNoOneBehind

"Muhammad is an excellent software engineer, fast and reliable. He has a wide and thorough understanding of the technology he works with, and he is always on time. We worked a lot on javascript related projects, including react and nextjs, but he also picks up new frameworks and languages in no time. In addition to his technical expertise it is also a pleasure to work with him on a personal level, as he is very friendly polite and always has good input on the complex tasks at hand. I can highly recommend working with him."

Aniqa Safdar, Principal Software Engineer at Cygnis Media

"I recommend Ahsan as a Full Stack developer. I had the pleasure of working with him as a team lead and witnessed his growth and dedication towards his work. His positive energy and attitude makes him a valuable asset for any team. He has good programming skills and ability to solve logical problems. He has good knowledge of javascript, react and nodejs."

Sojharo Mangi, Senior Fullstack Developer at Werlabs

"Ahsan is a smart and hard-working engineer who has keen eye to details and is always product-focused. It was amazing working with him during our startup and I must say he is most reliable when we are working in a startup environment where requirements often have certain degree of ambiguity. I really recommend him and wish him luck for his future endeavors."