Muhammad Ehtesham Uz Zafar Jan

⚲ Dresden, Germany ✉ ehteshamzafar2002@gmail.com ☎ +49 170 9083564 **in** ehtesham-zafar-8a500821b

 EhteZafar

Education

Technische Universität Dresden *Oct 2024 – Present*
MS in Distributed Systems Engineering

FAST NUCES *Sept 2020 – June 2024*
BS in Software Engineering

- GPA: 3.73/4.0 (transcript ⧉)
- **Salient Courses:** Object Oriented Programming, Data Structures, Design, Analysis & Algorithms, Operating Systems, Database Systems, Software Design, Computer Networking, Web Engineering, DevOps, Cloud Computing, Blockchain & Cryptocurrency
- **Achievements:** 7x Dean's list Certificates, Cum Laude, Bronze Medalist 2020 Batch
- **Extra Activities:** Co-Lead - Google Developer Student Club (GDSC), Lead Content Writer - Think & Create (T&C), Event Manager - FAST Data Science Society (FDSS), Seminar Head - Developers Day

Experience

Software Engineer 1 *April 2024 – Oct 2024*
Share Mobility

- Designed and developed the **CSV automation module** using **Angular** with a **Python backend**, enabling **trip scheduling** and **real-time chatbot interactions**.
- Integrated and optimized the **ChatGPT model** for the **Share Assistant**, adhering to organizational standards.
- Enhanced system performance by **optimizing Node.js backend**, conducting **load testing**, and mitigating **security vulnerabilities** with **AWS WAF**, **rate limiting**, and **queuing systems**.
- Automated deployments via **Terraform** and **GitHub pipelines**, and migrated the **email system** from **SparkPost** to **SendGrid**.
- Improved the **React-based** Rider Web App, enhancing **user experience** and ensuring seamless integration with **backend systems**.
- Developed frontend components using **TypeScript** and **React** for **scalable and maintainable code**.

Junior MERN Stack Developer *Sept 2023 – Dec 2023*
DotClick

- Developed modular **REST APIs** in **Express** and built responsive **frontends** for e-commerce applications using **React.js**, **Bootstrap**, and **MUI**.
- Improved performance by integrating **APIs** with **Redux** for efficient state management and optimized data storage using **MongoDB** and **SQL**.
- Enabled cryptocurrency payments using **MetaMask**, **Coinbase**, and platforms like **Ethereum** and **Bitcoin**.
- Enhanced chatbot **NLP capabilities** by integrating **Google's BARD API**.
- Developed scalable **Next.js frontends** with **TypeScript** for improved routing and **server-side rendering**.

Projects

SyncFlow (AI Recruitment Automation System) - FYP *syncflow.vercel.app* ⧉
Tech Stack: NextJs, NestJs, Flask, PostgreSQL, Redis, Docker, Azure, AWS, OpenAI

- Engineered an automated workflow solution for the hiring process using **React Flow**, improving **transparency** and real-time tracking of **job applications**.
- Developed **Google OAuth authentication**, **location-based hiring** with **reverse geocoding**, and utilized **AWS S3** for efficient document and image management.
- Enhanced frontend performance with **Redux Toolkit** for state management and reduced query time.
- Deployed the **Next.js frontend** on **Vercel** with **CICD**, hosted **Nest.js backend** on **Azure Docker Compose**, and **Flask backend** on **Azure Web App** for scalable performance.

STEAKIN - Restaurant Reservation and Management System
Tech Stack: NodeJs, ExpressJs, SQL, EJS

- Developed a **web-based dynamic system** designed to streamline customer and restaurant **management operations**.
- Implemented a **customer portal** to view, order, and **reserve seating** within the restaurant.

- Created an **admin portal** to efficiently manage **bookings**, **orders**, and **staff scheduling**.

Skills

Front-end: HTML, CSS (Bootstrap, Tailwind), React (.ts, .js), Next (.ts, .js), Angular (.ts)
Back-end: Node (Express, Nest), Python (Flask, FAST API), Java JSP, C/C++
Databases: PostgreSQL, Firebase, Oracle, MySQL, MongoDB
Tools: Git, Bitbucket, Docker, Redis, Generative AI, Postman, API Dogs, Azure, AWS, Kubernetes
Languages: English (C1), German (A1)

Certification

The Complete Web Development Bootcamp
Docker Training Course for the Absolute Beginners
Introduction to Python
Understanding Data Science
Intermediate SQL Queries