Huzaifah Asif

Software Engineer

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Skills:

Languages: **Html, CSS, JS**, TypeScript, Python, C#
Backend: Node.js, Express.js, **NestJS**, **MongoDB**, Postgresql, Mysql, DotNet Core
Cloud: **AWS, GCP,** Firebase, Supabase
Frontend: **React**, Next.js, **Angular**
Mobile: **Flutter** (iOS + Android), Kotlin
Others: **Git**, **Docker, Github Actions**, Jenkins

Work Experience:

3DBerg / Software Engineer (Full-Stack)

Apr 2024 - Aug 2024, Remote

- 3DBerg is an on-demand manufacturing platform, They provide manufacturing services like CNC machining, 3D Printing, Laser cutting, etc.
- I built a web application for 3DBerg where users can upload their 3D CAD Models and instantly get a quotation for the manufacturing cost and time.
- Technologies
  - I used **React + MUI** for the client, admin and manufacturing portal applications.
  - **Python** for the part which analyzes the models and determines the cost which is deployed as a cloud function on **GCP**.
  - **NestJS, PostgreSQL** and **Supabase** for the backend API that is used by all the clients.
  - **Docker** for building and Heroku for CI/CD.

AvantTech / Software Engineer (Full-stack)

Jan 2024 - June 2024, Remote

- I worked on the backend (**NestJS + PostgreSQL**) for a web application that allows the users to monitor and analyze their business' financial growth and trajectory
- Integrated a third party service using OAuth 2.0 that pulls all the financial history from the user's accounts and imports it to our application, and regularly refreshes the data on an interval using refresh tokens.
- Integrated **stripe** for accepting users' payments and handling subscriptions.
- Wrote unit and integration tests using the **Jest** testing framework.
- Built the admin panel application using React and MUI.
- Configured **Jenkins** pipelines for automating deployment to staging and dev servers.

CodeNinja / Software Engineer (Frontend)

Feb 2022 - Feb 2024, Lahore, Pakistan

- I worked mostly on the OfficeTimeline (Online app) product as part of the front-end team. The **OfficeTimeline Online** product is already in production with thousands of active users. Its front-end is written with EmberJS and my responsibility was to help **incrementally migrate** it from **Ember** to **React** without breaking everything and

adding **new features** as well.
Technologies used: **React, Webpack, Storybook, EmberJS, Jest, React Testing Library, dotnet-core.**
- Also worked on a small python django application where
  - I Migrated the frontend of the application from Jinja templates to a react application. I did this by incrementally migrating the pages one by one to React.
  - Added an authentication system using Auth0 and payment gateway with stripe and chargebee.
- I was also part of a training program at CodeNinja, where I helped design a practical course for helping junior developers learn MERN stack.

CYBRNODE / Full Stack Web Developer

Jan 2021- Jan 2022, Lahore, Pakistan

- Created a WhatsApp-based **Help Desk Support System** (Web App) for an IT Services provider company, helping them to streamline their technical support process with the use of *tickets* and *queues*.
Technologies used: **Angular, NestJS, MongoDB, AWS EC2, Nginx, Jira.**
- Implemented a Turnstile Controller System for a university Enabling them to track their students' on-campus activity, using their RFID-enabled student cards.
Technologies used: **React** (Next.js), **Express, MongoDB, Arduino, Python** and **Docker.**

CYBRNODE / Mobile Application Developer

Aug 2020 - Jan 2021, Lahore, Pakistan

- Learned Flutter and **Implemented** a **cross-platform** Mobile App using **Flutter** and **Firebase** for a vehicle certification organization (VGPro), digitizing their Vehicle inspection/certification process and enabling them to conduct their business more **efficiently.** (They did all of this on paper before the app).
- **Collaborated** with another development company and helped them **Refactor** their App's legacy flutter code utilizing best practices and clean code. This helped in improving the code quality a lot and enabling their development team to work more efficiently, also increasing their app's performance by up-to 10x.

Upwork / Miscellaneous

Oct 2018 - Mar 2021, Upwork

- Implemented a custom online store for a **CNC machining** company using **React.js, Three.js, Firebase, Express** and **Python**, helping to **digitize** their Ordering process**.** [Not fully completed at this time]
- Worked on several web automation and **ETL** projects using **python** and **selenium**.
- Created a desktop application using python and QT framework, this application allows the user to control a TEC controller, and visualize its temperature over-time on a graph. Later we migrated the application to use **Electron** instead of Qt for a much better looking GUI.

Awards and Achievements:

Cyber Security Hackathon

CyberHackathon 2021, Pakistan

- In addition to software development, I have also dabbled in cyber security and have a good understanding of the field.
- I participated in Pakistan's Cyber Security CTF Competition in 2021 where my team (me and a friend) got awards for ranking in the top 3 in multiple categories. (see Rankings for 2021)

Education:

- **Virtual University of Pakistan -** B.S. Computer Science (2021 - 2025)

- **School of Advanced Business And Commerce - B.S.** Computer Science (2018 - 2020)