Hamza Zeb
Senior Backend Software Engineer

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Work Experience

SENIOR EXECUTIVE BACKEND SOFTWARE ENGINEER

Aerodyne Group - Drone Tech, Data Tech & Digital Transformation

- Played a key role in successfully launching a **DRONOS SAAS product** from the ground up.
- Developed a secure **Authentication/Authorization System, RBAC**, and implemented **SSO** using **AWS Cognito** with **SAML/OIDC protocols**.
- Implemented a video streaming system **using MediaMTX-ffmpeg RTMP** and **RTSP protocols**.
- Developed a live telemetry system using **MQTTS protocol** using **EMQX** for tracking the live telemetry of a drone.
- Built Azure **CI/CD pipelines** for automated deployments.
- Created and managed **helm charts for Kubernetes** application deployments.
- Worked on **terraform scripts for AWS** resource management.
- Conducted thorough **Unit Testing** using **Jest** within the **Nest JS**.

SOFTWARE ENGINEER

TechnoGenics SMC PVT LTD (**StrikeReady**)

- Contributed significantly to **Cyber Security SAAS Product** (**StrikeReady**).
- Implemented **Authentication System** using **SAML**, **JWT**, **OKTA**, and **SSO** with **NodeJS & AngularJS**.
- Implemented Automated **Workflows feature** for task optimizations using **Python (Flask)**.
- Contributed a **case management system** to address incidents and attacks promptly, reducing average response time and reduction in operational downtime.
- Contributed to multiple **microservices** in NodeJS and **Python (Flask)** like case-management system, job-scheduling and identity-management**.**
- Worked in **Docker**, **Kubernetes**, and **OCI** for efficient deployment.

BACKEND DEVELOPER

AIBERS PVT LTD (Smart Healthcare Platform)

- Developed a **Telehealth SAAS Product** with **NodeJS (ExpressJS)**.
- Implemented **Authentication System** using **JWT** and **Firebase SSO**, ensuring data privacy and seamless user access.
- Deployed and integrated **Jitsi** for **Telehealth video conferencing**, to facilitate seamless **doctor-patient interactions**.
- Managed **AWS resources**, including AWS **EC2 instances** and **S3 buckets**.
- Utilized **third-party APIs** (Zoom, Jitsi, Google).

SOFTWARE DEVELOPER

FREELANCE PROJECTS

- Image Processing in **NodeJS** using **ImageMagick, Sharp** and **JIMP.**
- Scripting in **Python** and NodeJS.
- Users tracking in NodeJS & **PostgreSQL.**
- Web Scrapping in NodeJS using **JSDOM.**

Education

Computer Systems Engineering
UET PESHAWAR, KP, PAKISTAN
Majors: Software Engineering

Skills & Competencies

NODE JS (NEST JS, EXPRESS JS)

Python

JEST (testing framework)

SAML, OIDC, JWT, SSO

PostgreSQL, MongoDB, MySQL, Redis

RabbitMQ, Kafka

CI/CD, Dockers

Helm charts, Terraform

Kubernetes, AWS, Nginx, Apache

MediaMTX, FFMPEG, Jitsi

JS, Bootstrap, HTML5, CSS3

Templating engines (Handlebars, Jinja2)

Flutter + Firebase

React JS & Angular JS (Intermediate)

Laravel Framework (Intermediate)

Awards

High Performance
Aerodyne GSD PK Award 2023

Rising Star of The Year 2021
TechnoGenics SMC PVT LTD - LHR

Certifications

BIG DATA Analytics - CCA
KP Youth Employment Program

Diploma in Information Technology
ICL Abbottabad, KP, Pakistan

MOS (PowerPoint, Word, Excel)
Microsoft