

Muhammad Hamza Butt

Resume / Curriculum Vitae

Software Engineer

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Professional Work Experience (3+ Years)

Senior Node.js Developer (Backend)

OnStak (April 2022 – Present)

- PCB-Cloud (Node.js + Fastify + MYSQL + Prisma + JWT + MQTT):

Worked on the design and development aspect of Pakistan Cricket Board's custom player analytics solution (backend).

Created entire Backend structure in Node.js using Fastify as the Backend framework, MYSQL as the database and Prisma as the ORM.

Implemented authentication, user registration and role based access using JSON Web Tokens (JWTs).

Also implemented in-app notifications using MQTT PubSub methodologies.

- KFC Drive-Thru Analytics (Node.js + Express + MYSQL + Sequelize + JWT):

Worked on the development aspect of KFC Pakistan's Drive-Thru management and analytics application (backend).

Created entire Backend structure in Node.js using Express.js as the Backend framework, MYSQL as the database and Sequelize as the ORM.

Implemented authentication, user registration and role based access using JSON Web Tokens (JWTs).

Briefly worked on the integration of third-party Point-Of-Sale terminal APIs with the application's backend for data synchronization.

Developed solution to store data regarding day to day drive-thru customers based on events generated by machine learning models. Also implemented features to generate reports based on this data.

- Video Analytics Platform (Node.js + Express + MYSQL + Sequelize + JWT + AWS Storage)

Worked on the company's primary product (machine learning and computer vision based analytics platform) as a backend engineer.

Worked on integrating various machine learning models into the software solution.

Integrated role based and tenant based authorization in the software solution.

Made use of deployment strategies like Podman and Docker to deploy instances of the platform based on client requirements.

Backend Developer (Backend)

Wi-Metrix (July 2021 – April 2022)

- Production Line Management System (Node.js + Express + Microsoft SQL + Sequelize + JWT + Node Cache):

Worked on the development aspect of the company's production line management system geared towards the textile industry.

Helped in maintaining the backend codebase for this software solution.

Added new features in the codebase based on various client requirements.

Worked on developing and integrating basic level caching mechanisms using node cache.

Worked on integrating backend REST APIs with frontend engineers and Android applications.

Certifications and Achievements

- **Introduction to Data Analytics for Business (Coursera)**
University Of Colorado Boulder.
- **UX Design Fundamentals (Coursera)**
California Institute Of Arts.
- **Visual Elements Of User Interface Design (Coursera)**
California Institute Of Arts.
- **Front-End Web UI Frameworks And Tools: Bootstrap 4 (Coursera)**
The Hong Kong University Of Science And Technology.
- **Winner Of Forman Computing Society's Freshmen Gaming Competition (Counter Strike)**
FCCU FCS 2016.

Core Skills And Strengths

Node.js	JavaScript	Git
Docker	Podman	Express.js
Fastify	MongoDB	MySQL
MSSQL	Mongoose	Sequelize
Prisma	JWT	MQTT

Supporting Skills And Strengths

Nuxt.js	WebSockets	Linux
HTML	CSS	Bootstrap
Tailwind CSS		

Educational Background

- **Bachelors Of Computer Science (BCS)**
2016-2020
Forman Christian College College
Final Year Project: Social Media Predictive Analytics System. Used

Machine Learning and Predictive Analytics models to predict social media post reach.

- **A`Levels**
2012-2014
Beaconhouse Defence Campus Lahore
- **O`Levels**
2008-2012
DHA Senior School For Boys Lahore

Interests And Hobbies

- Photography and videography.
- Graphics Design (2D and 3D).
- Videogames and e-sports.
- Tennis, Football Swimming and Hiking.
- Bilingual (English and Urdu).
- Content creation.