

HAMZA ALI

Software Engineer

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[GitHub](#) | [Linkedin](#)

EDUCATION

University of South Asia

Computer science Bachelors

CGPA: 3.41

Lahore, Pakistan

Oct 2015 - Feb 2020

EXPERIENCE

Breu | Software Engineer

Lahore, Pakistan | Jan 2023 - Present

- Spearhead the development and maintenance of all server-side logic, ensuring optimal functionality and performance.
- Lead the design, development, and implementation of the P2 App, utilizing Node.js and Nest.js to deliver efficient and scalable solutions.
- Develop techops and cargoflo applications using Golang and the Echo framework, contributing to a comprehensive tech stack.
- Lead the testing and writing unit tests for different API's and use cases to ensure reliability and testability of system.
- Enforce best practices in code quality, testing, and documentation, enhancing the reliability and maintainability of applications.
- Actively participate in code reviews, offering constructive feedback to peers to foster a culture of continuous improvement.
- Keep abreast of industry trends and emerging technologies, integrating new tools and methodologies into the development processes.

BlueEast Private Limited | Software Engineer

Lahore, Pakistan | Jan 2022 - Dec 2022

- Successfully contributed to the development and optimization of the 'Mevris' platform, handling millions of records daily.
- Implemented and integrated the Pub/Sub model, MQTT Broker, and Event Store Database, enhancing overall system efficiency.
- Executed code and SQL query optimizations, resulting in a significant reduction in query times and improved system performance.
- Resolved critical bugs and issues promptly, ensuring a seamless user experience for both testing and client environments.
- Orchestrated the implementation of robust authentication mechanisms, enhancing overall security with Keycloak integration.

The Magnit | Node Js Developer

Texas, USA | June 2021 - Jan 2022

- Collaboratively worked on the creation of a platform for buying and selling cars, contributing from the project's inception to its successful deployment.
- Architect and develop REST APIs, dynamically serving data to the JavaScript front-end.
- Utilize the MERN Stack, emphasizing MongoDB, Express.js, React.js, and Node.js, to ensure a robust and responsive user experience.
- Implement Microservices Architecture for scalability and flexibility.
- Employ Swagger for comprehensive API documentation, ensuring clear communication and understanding of endpoints.
- Manage CI/CD deployment using Jenkins Pipeline on AWS, optimizing development workflows.
- Utilize AWS S3 Bucket for efficient storage of images and files, enhancing overall data management.
- Contribute to the creation of reusable components, streamlining the development process.
- Design and develop a web app with MVC architecture, ensuring a structured and maintainable codebase.

SKILLS

Programming Languages: Javascript, Typescript, Golang

Libraries/Frameworks: Node.js, Express.js, Nest.js, Echo, OpenAPI, Git, GitHub, Docker, Docker Compose, JSON Web Token (JWT)

Tools / Platforms:	Visual Studio Code, Postman, Amazon Web Services, Slack, Shortcut, Jira, Heroku, Temporal
Databases:	PostgreSQL, MongoDB, Elasticsearch, Redis, Memcached

PROJECTS / OPEN-SOURCE

Cargoflo | Link

Golang, Echo Framework, Temporal, OpenAPI, xorm, PostgreSQL

- Utilizes cutting-edge technology to track vessels in real-time based on events received from shipping companies.
- Events include departure, arrival, loading, unloading, and other relevant activities.
- Automated calculation of charges associated with each event, providing a clear breakdown of costs.
- Clearly distinguishes charges for both import and export operations.
- Ensures that clients and shipping companies have a transparent view of incurred charges on both sides of the shipping process.
- Detailed charge breakdowns for each event, enhancing transparency and accountability.
- Successfully Implemented unit testing for API's with Real and Mock Database.

Techops

Golang, Echo Framework, OpenAPI, xorm, PostgreSQL

- Seamlessly integrates with various tools such as GitHub, Slack, Jira, and other relevant platforms to provision access for new employees.
- Implemented Slack Slash Command for Leave and Onboarding form.
- Ensures that employees have the necessary access and permissions from day one based on their roles and responsibilities.
- Facilitates a more granular control over the onboarding process.
- Automates the off-boarding process when an employee leaves the company, ensuring the revocation of access to all relevant tools.
- Reduces manual intervention and minimizes the risk of unauthorized access post-employment.
- Drastically reduces the manual effort and time required for onboarding and off-boarding processes, leading to cost savings.

P2

Node.js, NestJs, Typeorm, PostgreSQL

- Spearheading the development and maintenance of robust server-side logic for the P2 App.
- Ensuring the seamless functioning of critical backend components to optimize overall system performance.
- Playing an instrumental role in the development of the P2 App, a pivotal platform fostering efficient interactions between Principals, Distributors, and Retailers.
- Successfully Implemented unit testing for API's.
- Implementing features and functionalities to enhance user experience and platform effectiveness.
- Implemented Authentication and RBAC to maintain security measures to safeguard sensitive data exchanged between stakeholders.

Mevris

NestJs, Pub/Sub Model, PostgreSQL, MongoDB, Redis, MQTT, Event Store Database

- Assume a pivotal role in the continuous maintenance and enhancement of all server-side code for 'Mevris'.
- Contribute to the development of 'Mevris,' an IoT-based Scalable Product, managing millions of events daily.
- Execute optimization strategies on code and SQL queries to enhance query performance and eliminate redundant calls.
- Actively participate in code reviews, offering constructive feedback to peers to foster a culture of continuous improvement.
- Investigate and resolve reported bugs and issues during testing phases and from client feedback.
- Lead the implementation of authentication mechanisms, bolstering the security of the 'Mevris' system.

CAROKTA

MERN Stack, Swagger, Jenkins, AWS EC2, S3 Bucket

- Led the end-to-end development of a comprehensive platform facilitating seamless car selling and purchasing.

- Undertook a central role in maintaining the integrity and functionality of all server-side logic.
- Authored reusable functions, contributing to time and effort savings in the development lifecycle.
- Developed functions enabling the seamless upload of images and files to an S3 bucket from an Express.js Application.
- Implemented robust user authentication and authorization mechanisms, bolstering platform security.

The Magnit - Portfolio

MERN Stack, Swagger, Jenkins, AWS EC2, S3 Bucket

- Led the end-to-end development of an elegant and functional portfolio website for The Magnit.
- Authored reusable functions, enhancing development efficiency and reducing effort.
- Developed robust functions enabling seamless image and file uploads to an S3 bucket from an Express.js Application.
- Implemented a dynamic approach to page creation by leveraging sections APIs, enhancing flexibility and scalability.
- Established a comprehensive Authentication and Authorization system, managing different roles effectively.
- Employed a monolithic architecture and followed the MVC framework, ensuring a structured and maintainable codebase.
- Documented all APIs meticulously using Swagger, facilitating clear communication and understanding.

CERTIFICATIONS

- Javascript (Basic) Certificate - **HackerRank**
- Web Development - House Of Professional, Lahore Pakistan..