

MUHAMMAD JUNAID EJAZ

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PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience in backend development, cloud infrastructure, and GenAI integrations. Skilled in building scalable systems across AWS, Azure, and GCP with expertise in Kubernetes, Docker, Node.js, React.js, and Python. Proven track record of delivering enterprise-grade solutions including EDI migration to Azure, real-time AI assistants, and high-availability cloud applications. Currently based in the UK with full right to work on a Dependant Visa – no sponsorship required.

WORK EXPERIENCE

Royal Cyber Inc.

Software Engineer

California, United States

Feb 2024 - Present

- Engineered a custom MCP server on AWS EC2 with streamable HTTP transport layer, orchestrating n8n automation workflows for seamless Clio integration that streamlined law firm operations including client appointment scheduling, matter management, and administrative workflows.
- Led end-to-end DevOps and AI integration, implementing Azure Computer Vision for OCR-based knowledge extraction, storing embeddings in Pinecone vector DB, and automating deployments with CI/CD pipelines.
- Developed an agentic AI voice agent leveraging OpenAI's Realtime APIs for autonomous conversational capabilities, architected with React for the frontend, FastAPI for Twilio telephony integration, and WebRTC/WebSocket protocols enabling real-time, low-latency voice communication.
- Architected and deployed a microservices-based IoT platform on Kubernetes, managing 10+ containerized services using custom Helm charts. Implemented Kafka streaming infrastructure, PostgreSQL/ElasticSearch database stack, and UDP data ingestion pipeline via DaemonSets.
- Migrated EDI functionality from SOA to Azure, leveraging Azure Function Apps, Cosmos DB, and Kafka to design scalable and efficient systems for processing complex EDI transactions.
- Optimized system integration and reliability by implementing robust business logic, error handling, and real-time data tracking, resolving critical infrastructure challenges and ensuring seamless communication between OTM, Azure, and Kafka.
- Automated CI/CD pipelines using Kubernetes operators and Helm charts, reducing deployment times by 30%

Aimfit

Backend Engineer

Pakistan

Nov 2022 - Jan 2024

- Closely worked with the product team to attain deep knowledge of feature needs coming down the pipeline and currently in development.
- Successfully led the integration of Stripe, which reduced the time taken to process a payment by 50% and smoothed transactions, improving customer experience.
- Independently led the development of the company's web application using React.js and integrated it successfully with our current Express.js backend due to resource constraints.
- Reduced AWS service costs for the company by 40%.
- Managed and executed automated build and deployment pipelines, including yaml writing for code build and Kubernetes.

U2 Ventures

Backend Developer

Pakistan

Jan 2022 - Sept 2022

- Firebase User Management module integrated out-of-the-box, further extended with custom email capability using Amazon SES.
- Wrote and deployed a UDP packet sniffer to efficiently consume the PSX stocks feed and publish to a Redis server.
- Created an effective Cron job using Lambda and CloudWatch Events that updates user application status in our database efficiently to match the latest PSX data.
- Web-socket sessions for real-time trading of stocks - backend management.

Onstak

Backend Developer

Pakistan

May 2020 - Dec 2021

- Designed and developed robust Backend REST APIs using JavaScript and Express.js, facilitating seamless data communication across applications.
- Optimized complex APIs by implementing server-side caching with Redis, resulting in significantly reduced response times and enhanced application performance.
- Played a key role in the development of an AWS pipeline utilizing the Boto3 framework, enabling efficient deployment and management of cloud-based applications.
- Competent in the design and development of mobile applications by means of the Flutter framework, which assures high-performance and visually attractive user experiences.
- Engineering multiple apps to integrate seamlessly with in-house IoT products by providing innovative solutions that will enhance user experience and functionality.

SEGMATEK

Software Engineer

Egypt

Aug 2019 - May 2020

- Created a sophisticated system focusing on ticket Severity, priority, and adherence to Service Level Agreements (SLAs) using Bootstrap, jQuery, JavaScript, Django, and Oracle.
- Effectively liaised with product managers to gather essential information, adeptly translating their inputs into impactful product features.
- Created and implemented a data feed monitoring system, utilizing Bootstrap, jQuery, PHP, and Oracle, to track and analyze hourly and daily trends.
- Created an E-care portal for Malitel utilizing Angular Material and Angular 8.0 technologies.

SKILLS

Cloud:	AWS, Azure, GCP
Frameworks:	Node.js, React.js, Express.js, Flutter, Django
Programming:	Javascript, Typescript, Dart, Python
Orchestration:	Kubernetes, Docker
Database:	MySQL, AWS S3, CosmoDB, Postgres

PROJECTS

SecuraCloud *Node.js, Strapi, React.js*

Security measures to ensure the safety of cloud.

BOOMBI *Flutter*

Transforming Plant Care with Smart Connectivity.

Language Interpreter *AI/ML, Python, OpenPose*

Urdu Sign Language Interpreter Harnessing Advanced Machine Learning

Generative Art NFT *Solidity, ERC-20*

Unleashing Generative Art NFTs with Innovative Blockchain Solutions

EDUCATION AND CERTIFICATES

University of Lahore

BS (Hons) in Computer Sciences

Lahore

2015 - 2019

AWS Certified Developer – Associate

<https://www.credly.com/badges/b2909801-5efe-4bcb-8182-bbc26117b01c>

AWS