Muhammad Mohsin

SENIOR SOFTWARE ENGINEER

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Professional Summary

Senior Full-Stack Engineer with 5+ years of experience building scalable applications across fintech, healthcare, and consumer technology sectors. Proven track record of leading technical initiatives, delivering high-impact solutions, and driving measurable business results. Expert in modern web technologies, cloud infrastructure, and AI integration with strong leadership skills in mentoring teams and managing complex projects. Passionate about transforming innovative ideas into production-ready solutions that solve real-world problems and create significant value for organizations and users alike.

Experience

Dosell AB   *Stockholm, Sweden*

FULL STACK ENGINEER   *Dec 2022 - Present*

- Spearheaded Cloud OCR automation to eliminate manual alarm processing bottlenecks at ICE Malaga. Built Django backend with Celery parallel processing and AWS infrastructure (ECS, ECR, ALB, VPC) including auto-calling mechanism. Reduced manual intervention by 80%, cut recurring costs, and improved response times by 60%.
- Led development of Dosell's first hybrid application (iOS/Android/Web) to address procurement and customer management gaps. Delivered Flutter-based solution with secure API integrations within 2-month deadline. Enabled Finnish deal of 500-1000 units and secured 1M SEK ARR milestone.
- Architected scalable React.js and Next.js medical applications to resolve performance bottlenecks. Implemented optimization strategies, code splitting, and responsive design patterns. Improved load times by 40% and achieved 99.9% uptime for critical workflows.
- Designed microservices architecture using NestJS, PostgreSQL, and event-driven patterns to streamline backend operations. Replaced legacy systems causing data processing bottlenecks. Increased throughput by 3x and reduced latency from 2000ms to 300ms.
- Mentored 5 junior developers through code reviews, architecture guidance, and technical workshops on React, Node.js, and cloud deployment. Established sustainable knowledge sharing culture and development best practices. All mentees promoted within 12 months, improved code quality by 50%.

Matrix Network International B.V.   *Remote*

SOFTWARE ENGINEER   *April 2020 - Nov 2022*

- Architected and developed complete Bitcoin ATM solution for cryptocurrency adoption across Spain, working fully remotely. Built end-to-end system including hardware integration, backend microservices with AWS SQS, frontend website, and Bitcoin mainnet/Lightning Network integration. Successfully deployed 22 ATMs across Spanish locations, processing secure cash and debit card transactions for bitcoin purchases.
- Built Venrecarga mobile recharge service addressing critical communication needs for Venezuelan market during economic crisis. Integrated multi-payment gateway solution with BunQ Bank, Stripe, PayPal, and OpenNode for cryptocurrency payments, providing continuous support and feature development. Generated significant revenue impact for company through high-volume mobile top-up transactions serving Venezuelan diaspora worldwide.
- Developed Rembit cryptocurrency remittance service enabling users to send funds instantly to loved ones over Master and Visa networks. Implemented secure KYC compliance endpoints, anti-money laundering checks, and ETL pipeline transforming S3 data to MySQL using Athena with 24-hour automated processing. Achieved €10,000+ in Bitcoin transfers within first month of launch, demonstrating strong market adoption and technical reliability.

Projects

AI-Powered CV Generator   *Personal Project*

AI/FULL STACK DEVELOPER   *2024 - Present*

- Built AI-powered CV generation system that dynamically tailors resumes to job descriptions using multiple professional templates and automated content optimization.
- Helped 15+ professionals in my network secure job interviews and offers by creating targeted CVs that match specific job requirements and industry standards.
- Implemented YAML-driven architecture with Python scripts and LaTeX templates, enabling one-click CV generation and deployment for rapid job application workflows.

NearBuy   *Personal Project*

MOBILE DEVELOPER   *2025 - Present*

- Developed cross-platform Flutter mobile application that notifies users when they enter geofenced areas near stores where their shopping list items are available.
- Implemented location-based services with real-time geofencing, push notifications, and shared shopping lists for family and group coordination.
- Built backend API for store database management, product matching algorithms, and user group synchronization to optimize shopping efficiency and reduce forgotten purchases.

Cashy   *Fintech Project*

AI/DATA ANALYST & FULL STACK DEVELOPER   *2023 - 2024*

- Addressed critical gap in SME lending evaluation where organizations lacked real-time cashflow insights for accurate loan assessment and company growth prediction.
- Integrated Fortnox and Swedbank APIs to extract financial data, developed AI models using Python to project invoices, expenses, salaries, and profit trends with advanced Excel manipulation for data processing.
- Built comprehensive Next.js dashboard providing real-time cashflow visualizations and predictive analytics, enabling lending organizations to make data-driven decisions and reduce loan default risk by providing accurate company evaluation metrics.

Chivozon

MICROSERVICES AND FRONTEND DEVELOPER

- Created a WordPress plugin to synchronize WooCommerce stores for inventory and automated order processing.
- Developed a microservice, Ordering service, using Restful APIs, Sockets, and RabbitMQ for backend communication.
- Built frontend modules in Next.js and an admin dashboard in React.js.
- Configured RabbitMQ for production, including queues and exchanges setup.

Skills

JavaScript	React.js, Next.js, Nest.js, TypeScript, NodeJs, Express.js, Flutter
AWS	Athena, DynamoDB, S3, EC2, Lambda, CloudWatch, CodeCommit, CloudFront, Simple Queue Service (SQS), RDS, Terraforms
System Design	Microservices, Kafka, RabbitMQ, ElasticSearch/OpenSearch, Real-time event driven Applications, Design Patterns(Singleton, Factory, SOLID, Dependency Injection)
Databases	SQL (PostgreSQL, MySQL, SQL Server, Oracle DB), NoSQL (MongoDB, DynamoDB, Firestore)
DevOps Skills	Linux, Docker, Jenkins, CI/CD, Git, Gitlab, SVN
Hardware Skills	Arduino (ESP32, 8266), Raspberry Pi, MDB, Vending machines, Bill & coin acceptors and validators, Touch & paper screens, Serial communication
Soft Skills	Leadership, Professional Communication, Humble Attitude, Team Management, Time Management

Education

Blekinge Institute of Technology   *Karlskrona, Sweden*

MS COMPUTER SCIENCE   *2022 - ongoing*

- Courses: Machine Learning, Deep Learning, Big Data, Research Methodologies, Information Retrieval.

University of Gujrat   *Gujrat, Pakistan*

BS COMPUTER SCIENCE   *2016 - 2020*

- Courses: Programming Fundamentals, Data Structures, Algorithms, Artificial Intelligence, Networking, Databases.

Achievements

- Java Master Trainer by Oracle certified
- Java Foundations certified by Oracle

- MS Office Suit certified by Microsoft