

# MUHAMMAD MOHSIN IQBAL

Full-Stack Software Engineer | React.js, Node.js/NestJS, AWS & AI Integration

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## SUMMARY

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**Full-Stack Software Engineer** with 5+ years of experience delivering production-grade applications for US-based clients across HR tech, security intelligence, and SaaS platforms. Skilled across the stack: **React.js**, **Next.js**, and **TypeScript** on the front end; **Node.js**, **NestJS**, and **Golang** microservices on the back end; and **AWS**-native infrastructure (**ECS**, **Lambda**, **CloudFormation**) containerized with **Docker** and **Kubernetes**. Experienced integrating **AI/LLM** features via **AWS Bedrock**, leading junior developers, contributing to product decisions, and owning enterprise client engagements end-to-end, including Kscope and Payroll Integrations.

## EXPERIENCE

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### Software Engineer Aug 2025 - Now

#### Codlinx

*Client-facing engineering role managing delivery across two enterprise products, mentoring 2 junior developers per project, and providing cross-team technical support and mentorship across the organisation.*

#### AI-Powered Vulnerability Intelligence Platform (Silicon Valley Startup)

- Led client system team engineering in **Golang** (backend) and **React** (frontend), translating Data Science team **LLM** outputs into user-facing features for a vulnerability detection and remediation platform.
- Integrated **AWS Bedrock** with open-source LLMs (**Claude 3** and other models) to surface AI-generated fix suggestions for code vulnerabilities detected across **GitHub**, Jira, and third-party artifact repositories.
- Built an accept/reject feedback loop for AI-generated solutions, enabling an **RLHF**-style retraining pipeline that improved model prediction accuracy over time.
- Designed and maintained **PostgreSQL** schemas and DBeaver-managed data pipelines supporting multi-source vulnerability ingestion and insight generation for fintech and software enterprise clients.
- Contributed to product decisions as a core member of the client system team, collaborating cross-functionally with data science and solutions teams to define feature scope and delivery.
- Deployed and managed services on **AWS ECS**, **ECR**, **CloudFormation**, **CodePipeline**, and **CodeBuild**; automated build and release workflows via **GitHub Actions**.

#### HR Tech SaaS Platform (San Diego, USA)

- Engineered integrations with Payroll Integrations' **iPaaS** platform, connecting payroll providers to **401(k)** and benefits systems via secure **APIs** working solo end-to-end on this client engagement.
- Implemented **Lincoln Financial Group** recordkeeper integration to automate payroll-to-401(k) data workflows, reducing manual data-handling steps in the HR pipeline.
- Developed microservices using **Node.js** and **TypeScript** with **AWS Lambda**, **S3**, **CloudFormation**, and **CloudWatch** for event-driven automation and infrastructure observability.
- Implemented **AWS Cognito**-based authentication flows and secured **API** endpoints across services, maintaining **SOC**-compliance-ready standards expected by enterprise HR clients.

### Software Developer Oct 2021 – Aug 2025

#### Stack System Technologies

- Developed responsive, cross-browser-compatible web interfaces using **React.js**, **JavaScript**, **Bootstrap**, and **CSS**.
- Architected and deployed full-stack **MERN** applications including WebLift (automated static & **GitHub**-based deployment platform with real-time build logs) and SMM Panel (social media engagement tool with dynamic admin controls), reducing manual setup time by 40%.
- Built secure backends using **Node.js**, **Express.js**, **JWT** authentication, and Bcrypt hashing; deployed via **AWS S3**, **ECR**, and **ECS** with automated scheduling.
- Designed **SEO**-optimised web applications with **Next.js** using **SSR** and **SSG**, boosting search engine visibility and page load performance.
- Established SMS-based wallet verification for the SMM Panel, accelerating payment processing by 60%.
- Built **RESTful APIs** and server-side logic with **Node.js** and **Express.js**, connecting to **MongoDB** for data modelling and persistence.
- Managed feature branches, pull requests, and code reviews on **GitHub** to streamline collaborative development workflows.

## SKILLS

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Languages: **JavaScript (ES6+)**, **TypeScript**, **Golang**

Frontend: **React.js**, **Next.js (SSR/SSG/ISR)**, **Redux Toolkit**, **React Query**, **Zustand**, **HTML5**, **CSS3**, **Tailwind CSS**, **Material UI**, **Bootstrap**

Backend: **Node.js**, **NestJS**, **Express.js**, **Golang** (microservices)

Databases: **PostgreSQL**, **MongoDB**, **DBeaver**, **Schema Design**, **Query Optimization**

Cloud & DevOps (AWS): **ECS**, **ECR**, **S3**, **Lambda**, **CloudFormation**, **CodePipeline**, **CodeBuild**, **CloudWatch**, **Cognito**

Infrastructure & Messaging: **Docker**, **Kubernetes**, **Kafka**, **Event-Driven Architecture**, **GitHub Actions/CI-CD**

AI / LLM Integration: **AWS Bedrock**, **Claude 3**, **RAG Pipelines**, **RLHF Feedback Pipelines**, **MCP (Model Context Protocol) Servers**

APIs & Auth: **RESTful API Design**, **JWT** & **OAuth** Authentication, **Webhooks**, **Secure API Design**

Tools: **Postman**, **Git**, **GitHub**, **DBeaver**, **Jira**, **VS Code**, **Cursor**, **GitHub Copilot**, **Claude**

## EDUCATION

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**Bachelor of Computer Science** | Government College University Faisalabad, Sahiwal Campus

CGPA: 3.42 / 4.0

Relevant Coursework: Artificial Intelligence, Data Structures, Web Development, Software Engineering

## PROJECTS

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### Public Safety Workforce Platform | Government Cloud Infrastructure

- Engineered an isolated **AWS** serverless environment with **Terraform**-managed infrastructure and **GraphQL APIs** for public-safety workforce workflows.
- Implemented scoped machine-to-machine authentication and custom serverless authorization to enforce service-level access controls.
- Strengthened release reliability through observability and deployment-drift controls across an architecture spanning approximately 35 serverless functions.

### AI Compliance Intelligence Platform | LLM-Powered Data Processing

- Developed AI-assisted compliance workflows using **Ruby on Rails**, **React**, **PostgreSQL**, and **LLM APIs** to process and review structured intelligence.
- Designed race-safe ingestion with **PostgreSQL** uniqueness constraints to prevent duplicate records under concurrent processing.
- Improved background-job resilience through fault isolation and safer production data operations, reducing the risk of one failed task disrupting others.

### Human-in-the-Loop Job Automation | Browser Automation Platform

- Built a browser automation workflow using **Playwright**, **MCP**, a **Chrome** extension, and **WebSockets** to coordinate job-application tasks.
- Designed resilient browser interactions with bounded execution and robust DOM targeting to handle changing application forms.
- Added human approval checkpoints before consequential actions, combining automation efficiency with user oversight and control.