

Jawad Bukhari

Sr. AI Engineer | Agentic AI, LLMs, RAG

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EXPERIENCE

Sr. Software Engineer

Feb. 2025 – Present

Aimyable

Dover, DE (remote)

- Built and shipped **multi-agent LLM systems** for a production accounts payable / RPA platform used by finance teams.
- Built **Aimy**, the product's chat assistant along with **GPT-Live voice agent** and **HeyGen AI Avatar** which uses OpenAI tool-calling via **Vercel AI SDK supervisor LLM** to select the mode (setup/process/API/support).
- Implemented **Gemini + pydantic-ai** execution agents in the WebSocket server to plan the steps, drive **Windows desktop RPA**, invoke other email and accounting apps, and retrieve answers from the document library during live process runs.
- Owned **AWS CI/CD** (CodePipeline/CodeBuild, CDK/ECS) for Next.js, Django, and the WebSocket worker, including **staging validation** and manual production approval gates.
- Built **Django scheduling** using **AWS SQS and Lambda** to execute asynchronous tasks triggered by an AI agents.
- Implemented **Django-tenants and queues** to support multiple organizations running AI-driven processes independently without any deadlock.
- Integrated Windows-based permission flows to handle **automated signed updates, notifications, and secure token retrieval** from the Django backend.

Software Engineer L4

June. 2025 – Feb 2026

Motive (formerly KeepTruckin)

Lahore, Pakistan (remote)

- Improved production vehicle speeding detection by increasing accuracy and reliability of safety alerts using **Here Maps** data and **AI-based speed sign detection**.
- Built MQTT → Kafka alert routing with **AWS IoT rules** to trigger downstream webhooks for real-time event processing.
- Deployed and operated regional AWS services (EU vs North America) by contributing **Terraform** changes for infrastructure-as-code and reliable rollouts.
- Resolved performance bottlenecks and ensured continuous data updates for accuracy and reliability.

Backend Engineer

Mar 2025 – Jun 2025

CodeNinja (Contracted to 3E)

Lahore, Pakistan (remote)

- Built backend APIs for an **internal AI tool** for 3E that retrieves relevant resources via intelligent querying for customer support use cases.
- Integrated services with **AI models** and maintained data-pipeline evaluation paths for consistent retrieval and response quality.

Software Engineer

Nov 2024 – Feb 2025

InfoStack

Lahore, Pakistan

- Developed and maintained mCards application in Ruby on Rails, focusing on the admin dashboard and sponsor bank features to provide custom offers on user-issued cards.

Project Developer → Technical Lead

Jun. 2021 – Sep. 2024

Educative, Inc.

Lahore, Pakistan

- Developed **Docker environments** for interactive widgets on Educative's standalone project feature to enhance user engagement and learning experiences. Used **Flask** to manage user sessions and implemented the **Redis cache** to maintain the user's progress.
- Implemented automated testing frameworks for performance testing. This included frameworks such as **PyTest, Selenium, and Cypress**.
- Performed manual testing for critical features, documented test cases, and identified edge-case bugs to improve user experience. Collaborated with cross-functional teams to refine test strategies and ensure product stability.

- As a Technical Lead, I reviewed extensive code files and provided feedback to use best coding practices. I also collaborated with cross-functional teams to integrate automated testing pipelines into the development lifecycle.
- Communicated with external stakeholders to gather requirements and ensure seamless delivery of high-quality software, maintaining a balance of manual and automated testing techniques.

EDUCATION

National University of Sciences and Technology (NUST) <i>Bachelors of Engineering, Software Engineering</i>	Islamabad, Pakistan <i>2017 – 2021</i>
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SKILLS

Languages:	Python, JavaScript, TypeScript, SQL, Ruby, Go
AI / LLM:	OpenAI, GPT-Live, Gemini, pydantic-ai, Vercel AI SDK, LLM routing, JEV, OpenAPI integrations
Backend:	Django, Ruby on Rails, FastAPI, Flask, Odoo, REST APIs, GraphQL, WebSockets
Frontend:	React, Next.js, Material UI
Database:	PostgreSQL, MySQL, Redis, Firebase, NoSQL
Cloud:	AWS Lambda, SQS, S3, EC2, CodePipeline, CodeBuild, AWS IoT (MQTT rules), SAM, Azure, GCP, Vercel, DigitalOcean
Infra:	Kafka, Terraform, Docker, Docker Compose, Kubernetes, MicroVMs, DockerHub, CI/CD, ELK Stack
Testing Tools:	PyTest, unittest, Behave, Gherkin, RSpec, Selenium, Cypress, Capybara
Methodologies:	Agile, JIRA, Git, Bitbucket, code reviews, manual and automated testing, Test-Driven Development (TDD), Behavior-Driven Development (BDD)

PROJECTS

After School Life

- Developed a user-friendly website for After School Life, a nonprofit organization offering multiple after-school programs in Santa Clara County, managing course cataloging, scheduling, and registration across multiple program locations.
- Automated test coverage using RSpec and Capybara for critical workflows, including user authentication and payment processing.
- **Tech Stack:** Ruby on Rails, Next.js, Material UI, PostgreSQL, GraphQL, Devise, AWS S3, Vercel, RSpec

E-commerce Application using Django Microservices

- Architected RESTful microservices with Django to handle core e-commerce capabilities and inter-service communication.
- Implemented secure OAuth2 authentication and built an administrative analytics dashboard for real-time monitoring.
- **Tech Stack:** Python, Django, Docker, OAuth2, REST APIs, SQLite, Git

Real-Time Chat Application

- Built a high-concurrency chat platform utilizing ActionCable and Redis WebSockets for bi-directional, real-time message broadcasting.
- Designed end-to-end unit and integration tests for live channels and session management using RSpec and Capybara.
- Benchmarked system performance and connection limits under heavy simulated user load.
- **Tech Stack:** Ruby on Rails, ActionCable, Redis, GraphQL, OAuth, ActiveJob, RSpec, Capybara

Serverless Rails AWS Deployment Course

- Authored an interactive Cloud/DevOps project guiding developers through deploying a Rails e-learning app via AWS SAM.
- Created automated test suites for AWS Lambda functions to validate data processing and API Gateway integration logic.
- Configured end-to-end API performance testing and distributed tracing using Postman .
- **Tech Stack:** AWS SAM, Lambda, API Gateway, S3, EC2, Ruby on Rails, Postman, RSpec