

MOHAMMAD AAQUIB JAWED

Software Engineer — Backend & Full-Stack

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SUMMARY

Software Engineer with 5+ years building and scaling production backend and full-stack systems across health-tech, proptech and ed-tech. Deep experience in Ruby on Rails, Python and JavaScript, with a consistent record of measurable results — 55% faster page loads, 50% faster search, 30% faster APIs. An MSc in Artificial Intelligence (Distinction) adds production ML capability on top of a strong engineering core.

TECHNICAL SKILLS

- Languages:** Python, Ruby, JavaScript, SQL
- Backend:** Ruby on Rails, Flask, Django, Node.js, REST APIs, system design, TDD (RSpec)
- Data & Infrastructure:** PostgreSQL, MySQL, Elasticsearch, Redis, AWS, Docker, CI/CD, Git
- Frontend:** React
- ML & Data:** PyTorch, TensorFlow, scikit-learn, PySpark, LangChain, RAG pipelines, ONNX Runtime

EXPERIENCE

- Founder & Lead Engineer** | heyengineers.com — London, UK Mar 2025 – Present
- Architected, built and launched a full-stack content platform solo, scaling it to 500+ registered users and ~5,000 monthly visits within four months.
 - Own the entire lifecycle: system design, backend and frontend implementation, ML-driven discovery, CI/CD and production operations.
- Senior Software Engineer** | Norstella (remote) Jul 2024 – Feb 2025
- Cut clinical-study page load times by 55%+ under high traffic through backend and caching optimisation.
 - Led a full CMS migration (Contentful → Keystone) end-to-end, reducing platform licensing and operating costs.
 - Resolved 90% of Snyk security findings (XSS, clickjacking) by enforcing CSP headers and refactoring unsafe code; raised PatientMatch alert accuracy 25%.
- Software Engineer** | PropertyPistol Nov 2022 – Jun 2024
- Cut search response time 50% and lifted result accuracy 35% by tuning Elasticsearch clustering and Query DSL.
 - Reduced race conditions 60% via Mutex and atomic synchronisation across concurrent booking flows.
 - Improved codebase maintainability 15% by introducing design patterns and refactoring core services.
- Software Developer** | Edcast Jul 2021 – Oct 2022
- Built a real-time notification system that increased user engagement 20%.
 - Optimised MVC services and database queries, reducing API response time 30% and query execution time 50%; applied TDD with RSpec, cutting bug incidents 25%.
- Earlier: Software Engineer, Cypher IT Solutions (Sep 2019 – May 2021) — designed database schemas and data-driven MVC pages, cutting data-retrieval time 30%. Cyber Security Intern, Gurugram Police (2021) — identified and mitigated SQL-injection and network-security vulnerabilities.
- Lab Tutor, Machine Learning & Big Data** | University of East London 2025 – Present
- Alongside freelance/product work, teach postgraduate ML and Big Data labs at the University of East London.

SELECTED PROJECTS

- Real-Time Biometric Attendance Platform** | MSc Dissertation — Distinction (92) 2025
- Engineered a production-style distributed system: Ruby on Rails application layer + Flask ML service, secured with a 256-bit HMAC location proof across the trust boundary; real-time face-recognition pipeline (ONNX Runtime, CPU-only) at sub-100ms latency blocking 99.3% of spoofing attacks.
- Agentic AI Customer-Service System** | LangChain / LangGraph + RAG 2025
- Designed a multi-agent LLM system automating multi-step customer-support workflows with retrieval-augmented generation and task-success evaluation.
- Mowqit** | Offline-First Android App, Published on Google Play 2025
- Built and shipped an offline-first Android timer app in React Native, TypeScript and Zustand, implementing exact-alarm scheduling that survives Doze, release signing with R8 obfuscation and tamper detection, and a zero-data-collection architecture with no INTERNET permission.

EDUCATION

- MSc Artificial Intelligence — Distinction (93% average, top of cohort)** | University of East London 2024 – 2026
- Big Data Analytics 99, Dissertation 92, every module 90+.
- B.Tech, Computer Science & Engineering** | Accurate Institute of Management & Technology 2015 – 2019

AWARDS & OPEN SOURCE

AI Hackathon — 1st Prize · Gold Star Award, Norstella · Rising Star Award, Edcast · Open source: Tor Project, GitLab · 70+ public repos, 1,000+ GitHub contributions/yr (Pull Shark x3)