

AEMAN FATIMA

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SUMMARY

Full-stack engineer with 5 years of experience across full-time and contract engagements, owning products end-to-end, from architecture through deployment, DevOps, and ongoing client support. At EastDevs, I built and ran a multi-tenant SaaS platform for agricultural businesses (6 deployments across 3 clients) and a telecom franchise management system (5 deployments across 5 clients), handling everything from application code to server setup, SSL, and hosting, plus a gaming platform serving 400K+ users with integrated payments and security controls. At EON Health, I built a healthcare communication platform from scratch on AWS, from a dynamic trigger-evaluation engine through multi-channel delivery into third-party systems. I also recently completed a Master of Artificial Intelligence and Machine Learning, building a full-stack AI tutoring platform as my capstone that combines deterministic verification with LLM-based classification (Claude and Gemini APIs). I use AI tools like Claude Code to move fast, while keeping my own judgement on anything that decides whether the result is actually good. Based in Adelaide with full working rights.

TECHNICAL SKILLS

Frontend: Angular, React, HTML5, CSS3, Tailwind CSS

Backend: Node.js, NestJS, Express, .NET (C#), PHP, Strapi, Laravel

Cloud & Tools: AWS (EC2, S3, SQS, Lambda), Azure (Data Factory), Docker, Apache, Linux, Git, GitHub, Jira, CI/CD, Agile/Scrum

API & Integration: REST API design, OAuth/SSO, Stripe, third-party SSO integration, integration diagnostics and troubleshooting

Security & Auth: Role-based access control, JWT authentication, data encryption basics, HIPAA-compliant data handling

Databases: PostgreSQL, MySQL, SQLite, Sequelize, TypeORM

Testing: Jest, unit and integration testing, data quality validation

AI & ML: Claude Code, Anthropic Claude API, Google Gemini API, LLM Integration, PyTorch, TensorFlow/Keras, Scikit-learn, Hugging Face Transformers, spaCy, NLTK, Retrieval-Augmented Generation (RAG)

Languages: TypeScript, JavaScript, C#, PHP, Python, SQL

EXPERIENCE

Software Engineer | EON Health · Lahore, Pakistan

Aug 2022 – Jul 2024

Angular · Node.js · NestJS · PostgreSQL · AWS

- Built EON Engage's CM (Communication Management) integration feature from scratch, an Angular and Node.js/NestJS trigger-based patient outreach and care management system used by major US health systems including LifePoint and UCHHealth.
- Built and optimized REST APIs, backend integration services, and PostgreSQL schemas supporting real-time patient data workflows, implementing OAuth-based authentication for the provider dashboard and diagnosing and resolving integration issues across interconnected healthcare systems.
- Used Docker to containerize backend services as part of the team's standard deployment process, supporting consistency across development and production environments.
- Translated business requirements from clients and stakeholders into intuitive, outcome-focused features, working end-to-end from requirements through code review, automated testing, documentation, and CI/CD-driven deployment in a regulated healthcare environment, following SDLC best practices within an Agile team.
- Supported data migration work with the Implementations team, transforming patient, provider, and clinical data from hospital source systems into EON Health's database schema without data loss.
- Collaborated within an Agile Scrum team, actively participating in Sprint Planning, Daily Stand-ups, Sprint Reviews, and Retrospectives to estimate work, refine requirements, review completed features, and continuously improve team delivery.

Full-Stack Developer (Contract) | EastDevs · Lahore, Pakistan

Jul 2019 – Jul 2022

PHP · MySQL · Node.js · React · JavaScript · Apache · Linux · Docker

- Architected and built three production platforms from the ground up: a multi-tenant agricultural SaaS product, a telecom franchise management system, and a gaming platform serving 400K+ users, each owned end to end including server setup, hosting, and ongoing maintenance.
- Worked directly with clients across healthcare, telecommunications, and e-commerce to translate business requirements into full-stack web applications, maintaining products long after launch rather than a build-and-hand-off model.
- Served as one of seven board members, weighing technical decisions by business and revenue impact, while managing deployments, troubleshooting, and quality assurance across multiple production applications.
- Set up hosting servers, virtual hosts, and SSL certificates for every client deployment, and provided ongoing yearly updates, bug fixes, and feature additions, coordinating directly with client teams on requirements.
- Upgraded TypeORM, Angular, npm, and Node.js to current versions across a client video analytics platform, keeping the codebase on supported, secure dependencies.

KEY PROJECTS

EON Engage (CM)

2022 – 2024

Angular · NestJS · PostgreSQL · AWS (EC2, SQS, S3)

- Owned the trigger engine end to end on AWS (EC2, SQS, S3): a cron-triggered system evaluating patient and exam data against configurable rules to decide when a letter is upcoming, overdue, or expired.
- Designed the engine's dynamic query builder, constructing SQL and equivalent JS conditions on the fly from configurable filters, plus a message handler routing incoming SQS events (exam, trigger, patient updates) to decide what needed re-evaluation.

- Delivered letters through multiple channels, PDF generation, a third-party print vendor (Quadient), and direct delivery into the Epic EHR system via AWS Cognito-authenticated calls, with retry and resume logic for failed deliveries.
- Wrote Jest unit tests for the engine's core services, built audit logging for trigger and filter changes, and reviewed pull requests and managed release branches across parallel delivery phases.

Attempt-Aware AI Math Tutor (Capstone Research Project)

2025 – 2026

Python · Anthropic Claude API · Google Gemini API · SentenceTransformers · SymPy · Angular 18 · PostgreSQL

- Designed and built, as a solo project, a full-stack AI tutoring platform end to end: a two-layer answer-evaluation pipeline combining deterministic verification (SymPy exact-answer checking, SentenceTransformer semantic similarity scoring) with LLM classification (Claude and Gemini) that labels each attempt correct, partially flawed, or incorrect.
- Designed a response router that selects a targeted hint, reframe, or praise strategy based on the classification, and implemented SM-2 spaced repetition to schedule each student's next appearance of a problem based on attempt history.
- Built the Angular 18 frontend end to end (chat UI, problem list, spaced-repetition dashboard, OCR photo upload for handwritten work), using Claude Code to accelerate implementation while owning all architecture and engineering decisions.

Fawkes Games Platform

Node.js · React · PostgreSQL · Xsolla · REST APIs · Docker

- Built and maintained a gaming platform serving 400K+ users, including user and admin portals with user search, character management, and loyalty rewards.
- Integrated multiple games into a unified ecosystem with shared authentication and progression, and designed the database architecture and query system to support high-throughput gaming data.
- Integrated Xsolla for payment processing (in-game purchases, subscriptions, virtual currency), and implemented cybersecurity measures to protect user accounts and payment data.
- Built an admin portal with advanced user search, character management, a ban system, and analytics, connected to the main website for a seamless experience across platforms.

Agro Services SaaS Platform

PHP · MySQL · JavaScript · HTML/CSS · Apache · Linux

- Architected and built a multi-tenant SaaS web application from scratch using native PHP and MySQL, designed for easy deployment: each client gets a customised copy on a shared codebase.
- Deployed and maintain 6 production copies across 3 clients, including Chashma Seeds & Agro Services, covering inventory management, order tracking, customer management, and reporting.
- Set up hosting servers, virtual hosts, and SSL certificates, and managed the full deployment lifecycle for each client instance, providing ongoing yearly updates, bug fixes, and feature additions.

Franchise Management System (FMS)

2021 – 2022

PHP · MySQL · JavaScript · HTML/CSS · Apache · Linux

- Built a comprehensive franchise management system for the telecom sector in Pakistan, covering inventory tracking, sales management, commission calculations, reporting, and user roles.
- Deployed and maintained 5 production copies across 5 franchise clients, each with a customised, client-specific configuration for rapid onboarding, with full server setup, hosting, and ongoing maintenance.
- Automated commission calculations and payouts using Stripe payment processing, and built Power BI reporting dashboards backed by Azure Data Factory pipelines for sales and commissions reporting across all 5 environments.
- Used Power Query to migrate historical data from physical registers, provided as Excel files, into the franchise database, repeating the process across all 5 franchise environments.

EDUCATION

Master of Artificial Intelligence and Machine Learning

Sep 2024 – Aug 2026

Adelaide University, South Australia

Bachelor of Science in Software Engineering

Sep 2018 – July 2022

COMSATS University, Islamabad, Pakistan