

Bilal Fawad

Software Engineer

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SUMMARY

Full Stack Developer (BSc Software Engineering, MSc University of Hertfordshire) with experience building and shipping scalable web, mobile, and 3D/AI products as Co-Founder of VDECOMA. Skilled in TypeScript, React/Next.js, Node.js, Python, and AWS. Also a university lecturer, bringing clear communication, mentoring ability, and strong software engineering fundamentals to every team.

TECHNICAL SKILLS

Frontend: React, Next.js, TailwindCSS, State Management, React Native, Redux

Backend: Spring boot, Node.js, PHP, .Net, GO

Databases and Caching: MongoDB, MySQL, GraphQL, Redis, Postgres, Cassandra, Query Optimization, Data Modelling

Languages: TypeScript, Java, C#, Java, Python, C++

Cloud & DevOps: AWS EC2, S3, Lambda, Bedrock, Shield, CloudWatch, Docker, RunPod, Kubernetes, Github Actions

Data Science: Pandas, Numpy, Matplotlib, Python/R, Statistical Data Analysis

ML/AI: TensorFlow, PyTorch, LSTM, Transformer, CNN, RNN, GenAI, Auto Encoder, Computer Vision, Random Forest, RAG

Coding Agent: Claude Code, JEV

PROFESSIONAL EXPERIENCE

Lecturer – Computer Science & IT

09/2025 – Present

North Hertfordshire College · Stevenage, Hertfordshire

- Deliver Level 3 BTEC and T Level programmes; apply data-driven techniques to monitor learner performance and communicate insights to senior management.
- Collaborate with multidisciplinary teams to design accessible, learner-focused digital solutions and optimise operational workflows.

Co-Founder & Lead Developer

01/2026 – 06/2026

VDECOMA · Remote

- Architected a React/TypeScript/Next.js web platform; built RESTful APIs with secure-by-design patterns and JWT-based authentication.
- Designed event-driven, asynchronous asset pipeline using Docker and serverless infrastructure; implemented CI/CD workflows enabling rapid, reliable deployments.
- Built MongoDB-backed vendor analytics dashboard; ensured accessible, user-focused UI validated against WCAG guidelines with real-world user feedback loops.

Front End Developer

01/2022 – 06/2023

TechnoWIS · Remote

- Delivered accessible, well-tested React and TypeScript interfaces; integrated RESTful APIs with efficient state management and wrote unit/integration tests with Jest and React Testing Library.
- Collaborated closely with UX/UI designers and cross-functional stakeholders to translate Figma mockups into high-performance, accessibility-compliant web applications.

Freelance Shopify Developer

06/2020 – 08/2021

Self-Employed · Remote

- Delivered custom Shopify theme development and store setup/configuration for 2-3 small business clients, using Liquid, HTML, CSS and JavaScript.
- Configured store settings, apps and storefront customisation to launch functional, on-brand ecommerce sites within client timelines.

Data Engineer Intern

09/2021 – 12/2021

PTCL · Islamabad, Pakistan

- Optimised SQL queries and ETL pipelines on Teradata/Oracle; identified and resolved data retrieval performance issues for business-critical applications.

EDUCATION

MSc Computer Science

09/2022 – 10/2024

University of Hertfordshire · Hatfield, Hertfordshire

BSc Software Engineering

09/2018 – 06/2022

Foundation University Islamabad · Islamabad, Pakistan

KEY PROJECTS

ResumeAI – Full-Stack Resume Builder & AI Integration

www.gotacv.com

Full-stack resume builder with AI/MCP integration for conversational, job-tailored resume editing.

- Live two-pane editor with print-ready templates and instant PDF export, so users see and download a finished CV in seconds.
- Secure accounts with autosave and shareable public links, so nothing is ever lost and resumes can be sent with one URL.
- Conversational AI tailoring lets users ask Claude to rewrite their resume for a specific job in seconds, not hours.

FitSync — Cross-Platform Fitness Management Platform

Full-stack SaaS platform connecting Personal Trainers and clients across web and mobile.

- Connects personal trainers and clients across web and mobile, giving each a tailored experience on a shared backend.
- Role-based access keeps admin, trainer, and client data private and scoped to what each user should see.
- Programme builder, nutrition tracking, and physio referrals let trainers manage a client's full fitness journey in one place.
- Real-time dashboard gives trainers instant visibility into client engagement, session completion, and nutrition trends.

National Disaster Management Dashboard

MVP AI monitoring platform aggregating real-time social media, news, and sensor data for disaster detection.

- Built event-driven, async backend APIs for event classification, severity scoring, geo-location extraction, and alert routing.
- Implemented multilingual NLP workflows (English & Urdu) and a real-time dashboard for emergency response teams.
- Designed with security and reliability in mind; automated workflows to validate and forward critical alerts to authorities.

Restaurant Management System

Desktop application (Java / JavaFX) delivered for a Germany-based client.

- Designed with OOP and SOLID principles; structured SQL schema for menus, orders, billing, and data integrity.
- Built intuitive UX for non-technical staff; managed version control and delivered production-ready solution.

LANGUAGES

English — Fluent

Urdu — Native