

Faisal K

Software Development Engineer

CONTACT

Email: faisal.k.ison@gmail.com | Phone: +91 8438996467 | Location: Trichy, Tamil Nadu, India

Portfolio: faisal-app.netlify.app | LinkedIn: linkedin.com/in/faisal-kursheedali | GitHub: github.com/faisal-kursheedali

PROFESSIONAL SUMMARY

Software Development Engineer with 2+ years shipping production web, mobile, and AI/ML applications. Trained AI models on 500+ images and built computer vision pipelines estimated to reduce QA time by 40% in the textile manufacturing industry. Shipped 5+ apps used by 500+ customers and 7+ retail stores. Currently working as a freelance software engineer, delivering end-to-end real-world solutions for multiple client projects.

Key Skills: AI/ML, Computer Vision, Python, PyTorch, OpenCV, React.js, Next.js, TypeScript, JavaScript, Flutter, REST APIs, Node.js, Firebase, PostgreSQL, MongoDB, Git, CI/CD

PROFESSIONAL EXPERIENCE

Freelance - Software Development Engineer

02/2026 - Present

Part-time

Remote

- Led end-to-end development of 2 client apps — an 8-page Next.js marketplace and a 9-10-page Flutter scheduling app with dual staff/student logins — as sole engineer
- Built the scheduling app's 2 user roles across 4 core flows: staff-side student/trainer management, student sign-in/sign-out, and announcements
- Implemented responsive UI from Figma designs across both apps, backed by a 5-collection Firestore schema for the scheduling app, plus MongoDB and Vercel/Cloudflare for hosting and domain management
- Set up CI/CD across 3 platforms — Cloudflare, Netlify, and Vercel auto-deploy on push — plus a GitHub Actions pipeline building the scheduling app's iOS binary on every commit
- Ran 2+ weekly client meetings to gather requirements and prioritize MVP features
- Used 3 AI tools daily — Claude Code, GitHub Copilot, OpenAI Codex — relying heavily on Claude Code to speed up UI development

Tech: Next.js, React, TypeScript, Flutter, Express.js, PostgreSQL, Prisma ORM, Firebase, MongoDB, Vercel, Cloudflare, REST APIs, Figma, Claude Code, GitHub Copilot

GenoraAI - AI/ML Engineer

11/2025 - 05/2026

Full-time

Remote

- Built an automated garment measurement pipeline — YOLOv11 for dress detection, YOLOv11 Pose for keypoint extraction — mapping fixed point-of-measurement (POM) definitions to keypoints to compute real-world garment measurements
- Designed a two-stage calibration system: ArUco marker as the primary reference, with a custom-trained coin detector (YOLOv11 + SAM mask area) as fallback, converting pixel distances into an accurate px:cm ratio
- Fine-tuned YOLOv11 pose estimation on a 500-image custom dataset, achieving 97.2% precision, 100% recall, and 99.5% mAP50 at ~115ms inference speed
- Wrapped the full pipeline in a Flask/FastAPI inference server returning measurements as structured JSON plus visualization output, projected to cut manual QA time by 40%
- Collaborated within a 4-engineer agile team, aligning model outputs and integration requirements with mobile SDK consumers

Tech: Python, PyTorch, OpenCV, YOLOv11, SAM, Flask, FastAPI, REST APIs, Roboflow, CVAT, Git

Kilofarms - Software Development Engineer

01/2023 - 01/2024

Full-time

Trichy, Tamil Nadu, India

- Built and deployed 3 production Flutter apps – POS, attendance, and warehouse management – across 7+ retail stores and 2+ warehouses
- Designed zero-training UI/UX for non-technical retail staff despite high turnover across 7+ locations
- Shipped end-to-end POS interface for billing, inventory, and payments – supporting 500+ customer transactions via Bluetooth thermal printer integration
- Engineered an offline-first SQLite retry queue that auto-resent failed API calls, preventing data loss from network drops and human error across all 7+ stores
- Integrated 3 Bluetooth hardware peripherals – barcode scanners, thermal printers, weighing scales – into one unified app
- Deployed and version-managed all 3 apps on Google Play Store, coordinating rollout with on-site staff at 3 locations

Tech: Flutter, Dart, BLoC, SQLite, Firebase, REST APIs, Play Store

CERTIFICATIONS

NEOG - Full Stack Development Bootcamp

01/2022 - 12/2022

Full-time

Remote

- Built 17 MERN stack projects, including a 25+ component reusable UI library and a TypeScript starter kit, via PRs and code reviews in an agile-style environment
- Shipped 3 full-stack apps implementing JWT auth, role-based access control, Redux state management, and RESTful API design
- Practiced TDD with Jest, CI/CD deployment, and Webpack module bundling through hands-on projects

Tech: HTML, CSS, JavaScript, React.js, Next.js, Node.js, Express.js, TypeScript, Redux, MongoDB, PostgreSQL, Webpack, Jest, JWT, REST APIs

SKILLS

Frontend Development: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Redux, Context API, useReducer, Vite, Responsive Design, Component Architecture, Figma, REST API Integration

Mobile Development: Flutter, Dart, BLoC, Provider, SQLite, Firebase, Clean Architecture, Play Store Deployment

Backend & APIs: Node.js, Express.js, REST APIs, PostgreSQL, MySQL, Prisma ORM, MongoDB, JWT, Socket.IO, Flask, FastAPI, Python

AI/ML: PyTorch, OpenCV, YOLOv11, SAM (Segment Anything), Pose Estimation, Roboflow, CVAT, Model Fine-tuning, Google Colab

Testing & Tooling: Jest, TDD, Webpack, Git, GitHub, GitHub Actions, CI/CD, Bitbucket, Postman, Linux, Docker

AI-Assisted Development: Claude Code, GitHub Copilot, OpenAI Codex

Cloud & Other: AWS S3, AWS Rekognition, Vercel, Netlify, Cloudflare, Supabase, Jira, VS Code, Android Studio

EDUCATION

Master of Science in Computer Science | Bishop Heber College

07/2024 - 04/2026

Trichy, Tamil Nadu, India

Coursework: Full Stack Development, Cross-Platform & Flutter Development, NoSQL & ORM, Web Hosting & WebSockets, Computer Vision & AI/ML, Software Engineering

Bachelor of Science in Computer Science | Bishop Heber College

07/2020 - 05/2023

Trichy, Tamil Nadu, India

Coursework: Data Structures, OOP, Functional Programming, RDBMS & MySQL, Operating Systems, Web Development, Git & Version Control

LANGUAGES

English, Tamil, Hindi, Urdu, French, Arabic