

Roshani Chede

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Professional Summary

Full-Stack Software Engineer with **4+ years of professional experience** building and shipping production systems across **backend APIs, frontend applications, and data pipelines**. Proven track record of delivering scalable services that handle **10K+ daily transactions**, improving system performance by **40%** and automating workflows to cut manual effort by **85%**. Experienced across the full stack — designing REST APIs, building real-time event-driven systems, optimising relational databases, and shipping responsive web apps. Comfortable working end-to-end from architecture and implementation to debugging, deployment, and production support.

Education

University of Leicester

MSc Advanced Computer Science – Distinction

England, UK

Sept 2024 – Jan 2026

University of Goa

BE Computer Engineering – University Gold Medalist

Goa, India

Aug 2016 – Aug 2020

Experience

Samko Holdings – Freelance

Data Engineering & Automation

Remote, UK

Mar 2026 – Present

- Architected an automated **ETL pipeline** integrating **QuickBooks, Coupler.io, and Excel**, replacing manual daily data entry with scheduled syncs across multiple operational datasets.
- Built **cross-system data mapping** and live-update logic to consolidate siloed datasets into a unified workbook, enabling single-source-of-truth reporting for leadership.
- Implemented **Microsoft Power Automate** workflows to ingest Outlook email attachments directly into Excel, eliminating manual download and data-cleaning steps.
- Developed a **web-based KPI dashboard** surfacing key operational metrics with realtime refresh, giving leadership visibility into previously fragmented data.

EcoQuick – Freelance

ecoquickdelivery.co.uk

Remote, UK

Feb 2026 – Present

- Built a full-stack delivery platform using **Next.js, React, TypeScript**, and **Supabase** (Postgres, Auth, Realtime), with role-based access control for customers and drivers.
- Designed and shipped a real-time **driver dispatch system** with atomic job-claim APIs that prevent double-acceptance when multiple drivers try to claim the same order concurrently.
- Delivered a multi-step booking flow with **Stripe** payments, live **Mapbox** GPS tracking, and real-time order status updates via **WebSockets**.

Tata Consultancy Services – Systems Engineer

Production Support Engineer, promoted to Lead Developer

Mumbai, India

Oct 2020 – Aug 2024

- Built and maintained **REST APIs** in **.NET** and **SQL Server** for a large-scale enterprise platform handling **10,000+ daily transactions**, cutting manual processing effort by **85%** and improving API response time by **40%**.
- Designed and delivered end-to-end features by translating business requirements into technical solutions in collaboration with product, business analyst, and QA teams, directly contributing to a **5x increase in platform throughput**.
- Resolved **20+ high-severity production incidents** through structured root-cause analysis, reducing repeat failures by **35%** and improving overall system reliability.
- Optimised database performance through **query tuning, indexing, and stored procedures**, supporting real-time reporting workloads across **50K+ records**.
- Delivered releases through **Git-based workflows** and **CI/CD pipelines (Jenkins)**, with automated builds, versioned deployments, and rollback strategies.

- Promoted from production support to lead developer; **mentored junior engineers** on API design, debugging, code reviews, and secure coding practices.

Projects

Gesture Workspace Controls — *macOS gesture-driven productivity app* [GitHub]

- Built a cross-stack **Electron** desktop utility that uses **webcam-based hand gestures** (swipes, peace sign, open palm, fist) to control macOS workspace actions from a persistent menu bar app.
- Integrated **MediaPipe Hands** for real-time hand landmark detection and gesture classification, with custom **debouncing and hold-to-trigger** logic to prevent repeated firing and reduce false positives.
- Designed a secure **IPC bridge** (Electron main/preload) to native macOS actions via **AppleScript, Shortcuts CLI**, and shell commands — controlling light/dark mode, Focus / Do Not Disturb, and brightness.
- Shipped a pluggable **JSON-configurable action mapping** layer so new gestures and system commands can be added without code changes; supports both Electron and browser prototype modes.

AI Slide Enhancer — *MSc Dissertation, University of Leicester (Distinction)* [GitHub]

- Designed and built an end-to-end AI-powered slide enhancement platform as MSc dissertation project, researching LLM-driven automated content enrichment for presentation improvement.
- Architected a **dual-LLM system** using **OpenAI** as the primary model with **Google Gemini** as a resilient fallback, ensuring availability and consistent output quality during API outages or rate limits.
- Built a **Flask** backend with modular REST APIs for PPT/PDF parsing, preview generation, and speech narration; paired with a **Next.js** frontend offering dashboard analytics, history tracking, and side-by-side before/after comparison.
- Conducted **user testing** to evaluate output quality and workflow usability; implemented caching and rendering optimisations to reduce response time and improve interactive responsiveness.

URL Shortener — *teeny.roshani.tech (Learning project)*

- Side project exploring **Django REST APIs** and containerised deployment, built to gain hands-on experience with the end-to-end Python web stack.
- Deployed on **GCP** using **Docker, Nginx, and Gunicorn**, covering containerisation, reverse-proxy configuration, and WSGI serving fundamentals.

Skills

Languages: Python, TypeScript, JavaScript, C# (.NET), SQL, HTML/CSS

Backend: .NET (ASP.NET), Node.js, Flask, Django, Express, REST APIs, WebSockets

Frontend: React, Next.js, TypeScript, Angular, Tailwind CSS

Databases: PostgreSQL, SQL Server, MySQL, Oracle, MongoDB, Supabase

Cloud & DevOps: GCP, AWS, Azure, Docker, Nginx, Jenkins, CI/CD, Git

System Design: REST APIs, Event-Driven Architecture, ETL Pipelines, Real-time Systems, State Machines

Integrations & Tools: Stripe, Mapbox, MediaPipe, Electron, Power Automate, Postman, Jira, Azure DevOps

Practices: Code Reviews, Debugging, Root-Cause Analysis, Agile/Scrum, Mentorship, Technical Documentation

Awards & Achievements

Star of the Month Award (2x): Tata Consultancy Services, recognised for consistent high performance, dedication, and strong contribution during a period of personnel changes.

Star Team Award: TCS, awarded for determination and commitment in accomplishing goals on a large enterprise engagement.

On the Spot (Team) Award: TCS, for resolving long-standing Chrome browser compatibility issues and closing almost all open bugs on a year-long project.

Special Initiative Award (2x): TCS, nominated for commendable contributions to internal InfoSecurity events (“Guess Me” 2022 and “KBC Quiz” 2023).

University Gold Medalist: Goa University — awarded for highest academic performance in BE Computer Engineering.