Mayank Sharma

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Summary

Frontend Software Engineer with 1+ year of professional experience building real-time, data-intensive **React** and **TypeScript** applications for US and EU clients. Skilled in state management, REST API integration and AI-assisted development; published generative AI researcher.

Experience

Ditstek Innovations Mohali, India
Software Engineer – React JS (Frontend) *Aug 2025 – Present*

- **CityWide CWS** (US security workforce platform): Built real-time dispatch status, guard tour tracking and call management views in **React, TypeScript and Redux**, consuming live **Socket.IO** event streams.
- Integrated **REST APIs** against backend API contracts, handling **loading, error and empty states** across data-heavy tables and live views.
- Reduced unnecessary **re-renders** on high-frequency live updates using **React.memo, useMemo and useCallback**.
- **Happy Whole Human** (Spain-based wellness platform): Developed **role-based dashboards** (Admin, Coach, Client) with reusable, typed React components and **Stripe** payment integration.
- Separated **data fetching from UI** with **RTK Query** (caching, cache invalidation, async state handling) over MongoDB-backed APIs.
- Worked in a **Git pull-request workflow** with regular **code reviews**, debugging in **Chrome DevTools** and using **AI-assisted development tools** (Claude Code) daily.

Projects

Guardian Lens: AI Workplace Safety Platform | *React, FastAPI, PostgreSQL, YOLO, ONNX Runtime* GitHub

- Contributed to an organization-level platform detecting workplace safety violations from CCTV/IP camera streams using locally trained **YOLO** vision models.
- Built the edge AI pipeline with **OpenCV and ONNX Runtime**, combining model detections with deterministic safety rules, human-in-the-loop verification and a **FastAPI + PostgreSQL** backend.

RAG-Based LLM Resume Screening System | *Python, FastAPI, LangChain, OpenAI API, Docker* GitHub

- Built a **RAG-based LLM application** for contextual candidate evaluation and automated role matching.
- Designed prompt workflows and LLM evaluation pipelines achieving **90%+ screening accuracy**; deployed using Dockerized CI/CD pipelines.

IntelliTraffic: Adaptive Traffic Signal Control | *Python, Keras, SUMO, TraCI, DQN* GitHub

- Developed a **DQN-based traffic controller** cutting simulated wait times by **35%**, with results visualized on real-time dashboards.

Technical Skills

Languages: JavaScript (ES6+, async/await, Promises, closures, DOM), TypeScript, HTML5, CSS3, Python, SQL
Frontend: React (Hooks, Context), Redux Toolkit, RTK Query, Socket.IO, REST APIs, Axios, Responsive Design
Tooling: Git, GitHub (pull requests, code review), Chrome DevTools, Docker, Vercel, AWS (EC2, S3 – basics)
Backend & Data: Node.js, Express.js, FastAPI, Flask, PostgreSQL, MongoDB
AI & AI-Assisted Development: Claude Code, MCP, RAG, LangChain, OpenAI API, Prompt Engineering

Education

Chandigarh University Punjab, India
Bachelor of Engineering in Computer Science – CGPA 7.22 *Aug 2021 – June 2025*

Certifications & Achievements

- **Anthropic Academy:** Claude Code, Claude API, Model Context Protocol (MCP), Agent Skills, Subagents
- **Google:** Generative AI, Vertex AI, Large Language Models | **IBM:** Python Programming, Python Development
- Published *"Unlocking the Power of Generative Pre-Training"* at **ICCMST 2024** (Taylor & Francis) – Link