

# Davinder Singh

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**Summary** — A full-stack engineer focusing on Backend Development, DevOps, and GenAI. Passionate about leveraging the latest technologies. Electronics engineer by degree, software engineer by passion.

## Education

**Dr. B R Ambedkar National Institute of Technology Jalandhar**

*B.Tech in Electronics and Communication*

*Aug 2023 – Present*

## Experience

**Intern - AI and Backend Developer at Level SuperMind**

**Jan 2025 – Present**

- Developed an AI-powered chatbot for spiritual guidance, puja bookings, and personalized horoscope services.
- Built scalable backends using Python and Flask with MongoDB, and deployed with Gunicorn.
- Implemented NLP models and integrated Vedic astrology knowledge for chatbot training.

## Freelance Projects

**BarqScoot**

- Developed an IoT-enabled e-scooter sharing platform with real-time tracking, ride management, and geofencing.
- Built user apps and a comprehensive admin panel for ride monitoring and dynamic pricing. Advanced DevOps and Microservice deployment with robust scalability with optimized cost.
- Tech Stack — Golang, Fiber, Postgres, Kafka, Redis, Kubernetes, AWS, Docker

**Drishti**

- Built a Next.js platform for automated DISC and RAISEC personality tests used in Punjab schools.
- Integrated secure admin-verified user workflows with automated signed reports.
- Tech Stack — NextJS, MongoDB, NodeJS, TailwindCSS.

## Projects

**Fasal-bazaar (ongoing)**

- Connecting farmers and contractors via scalable microservices with Web3 smart contracts.
- Tech Stack — TypeScript, NodeJS, ReactJS, Redis, Prisma, PostgreSQL, S3, Docker, Kubernetes.

**DaveExchange**

- Prototype stock exchange platform with scalable architecture.
- Tech Stack — TypeScript, NodeJS, ReactJS, WebSockets, Redis Queues, TimescaleDB.

**DaveDiscord**

- Chat app with server, channel management, and video conferencing features.
- Tech Stack — NextJS, TypeScript, Pusher, LiveKit, Clerk, Prisma, PostgreSQL.

**GenAI Projects**

- Insightly - A chatbot to analyze social media engagement trends using Langflow and Datastax.
- PDF analyzer chatbot using LangChain, Gemini, FAISS, and Streamlit.
- CrewAI-based news reporter with FastAPI-driven researcher and writer agents.

**Other Projects**

- DaveDFS - A decentralized P2P file-sharing system in Go with content-addressable storage, secure encryption, and efficient broadcasting for fault-tolerant distributed environments.
- Threads-backend - An optimized and secure GraphQL API backend for a Threads-like application built using TypeScript.

Visit more projects at [davinder.live/projects](https://davinder.live/projects)

## Skills

<b>Languages</b>	Golang, JavaScript, TypeScript, Python, C/C++, Bash
<b>Tools</b>	ReactJS, NextJS, NodeJS, ExpressJS, FastAPI, GraphQL, gRPC, Go-std, Fiber, HonoJS, WebSockets
<b>Databases</b>	PostgreSQL, MongoDB, Redis, MySQL, cassandra, TimescaleDB
<b>DevOps</b>	Docker, Kubernetes, Kafka, AWS, Ansible, Terraform, Linux, Jenkins

## Achievements and Extracurricular

- Runner-Up at Level Supermind Hackathon, Hacking-Health - National Level Hackathons.