

# SHIVKUMAR DEVANE

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Software development enthusiast with experience in building scalable applications using React.js, Node.js, and SQL. Delivered real-time platforms, interactive dashboards, and e-commerce systems with clean UI and efficient backend design.

## EDUCATION

BTech Bio-Technology (Computer Science Minor)	2022-2026	Delhi Technological University, New Delhi
CBSE (Class XII)	2022	D.A.V. Centenary Public School, Narela, New Delhi
CBSE (Class X)	2020	D.A.V. Centenary Public School, Narela, New Delhi

## EXPERIENCE

### Soul AI | Freelance—Engineering & Evaluation (Project Pluto)

August 2025 – September 2025

- Evaluated and **stress-tested large language model outputs** across 500+ prompts using statistical sampling, error taxonomy, and rubric-based scoring.
- Identified systematic failure patterns in reasoning, hallucination, and instruction-following, and proposed prompt-level mitigations that **improved response accuracy by 15–20 percent**.

### TickerTactics Algorithms LLP | SDE Intern | [\(Link\)](#)

September 2025 – December 2025

- Architected high-throughput Python services to ingest live market data from **6+ trading APIs** including equities, crypto, futures, and options.
- Constructed distributed ingestion pipelines on **AWS EC2** using **Linux, Bash, Cron**, and background workers to handle millions of records/day with fault tolerance and auto-recovery.
- Implemented schema normalization and transformation layers, converting raw JSON streams into **Parquet-based analytical datasets**, improving query performance **by ~40 percent**.
- Developed data validation and reconciliation modules to detect missing ticks, timestamp mismatches, and pricing anomalies, while optimizing memory and I/O bottlenecks using profiling and vectorized streaming logic.

## ACADEMIC PROJECTS

### Project 1: Shop Affordable – E-commerce Platform | [\(Link\)](#)

(Python, HTML, CSS, MySQL, SERP API)

- Built an e-commerce platform with real-time inventory management. Performed sales and customer data analysis to identify purchasing trends and optimize product recommendations. Visualized key metrics using a Matplotlib dashboard.

### Project 2: High-Performance Intraday Trading Terminal | [\(Link\)](#)

(React 19, Web Sockets, JavaScript, State Management, CI/CD)

- Engineered a low-latency **intraday trading terminal** using Binance API Web Sockets, streaming and processing 100+ market updates per second with zero UI blocking.
- Optimized React rendering and state management to support concurrent **intraday order books, live trades**, and time-series charts. Designed persistent client-side storage to enable session recovery for **active intraday positions and strategies**.

### Project 3: Enterprise Job Application Tracker with Analytics | [\(Link\)](#)

(React 18, PostgreSQL, D3-Sankey, React Beautiful, Recharts)

- Deployed full-stack **SUPABASE SPA**, implementing Row-Level Security (RLS) and JWT authentication for secure multi-tenant data management.
- Created **interactive Kanban board** with **real-time database sync** and **D3-Sankey funnel visualization** to track application journey across 6 stages, with dynamic gradient flows and analytics. Crafted responsive UI, achieving 95+ Lighthouse score through **code-splitting and lazy loading**.

### Project 4: Audio Porter Pro – Low-Latency Audio Streaming Ecosystem | [\(Link\)](#)

(WebRTC, Node.js, Capacitor, Web Sockets, CI/CD)

- Addressed the limitation of being physically tethered to a PC for audio monitoring. Assembled a **high-fidelity WebRTC audio streaming platform** for near-instant PC-to-mobile broadcasting, **achieving sub-50ms lag** through aggressive Opus codec tuning (10ms packetization time).
- Activated a persistent **Android background experience** using **Capacitor Foreground Services** to enable uninterrupted audio playback while the mobile device is locked.

## TECHNICAL SKILLS

Programming & Systems	C++, Python, SQL, Rust, JavaScript, HTML, CSS, Linux, Bash
Frameworks & Data	React, Node.js, Web Sockets, PostgreSQL, Power BI, Tableau, D3.js, Recharts, Stata
Cloud, DevOps & Tooling	AWS, Google Cloud, Git, CI/CD (GitHub Actions), System Design, Figma, Jira, GenAI

## COMMUNITY DEVELOPMENT & SOCIAL WORK

### Consultant Intern | DPPL (Shikhar NGO)

- The **Delhi Police Public Library (DPPL)**, India's first digital library in police stations, promotes education and community engagement. Expanded DPPL with **Delhi Police to Maharashtra**, empowering **140,000+ girls** and educating **480+ slum children** through sub-projects.

## POSITIONS OF RESPONSIBILITY

### Head (Corporate & PR) – DTU Altair, Official Robotics Team of DTU

- Collaborated on innovative projects**, focusing on GenAI, technical documentation, Sponsorship, Data Management and Visualization using Python. Raised ₹10 lakh in funding from college and sponsors to support various projects, which subsequently achieved recognition by winning multiple national and international competitions.
- Led non-technical initiatives** by organizing team meetings, managing sponsorship outreach, coordinating logistics for events, and driving community engagement to enhance the club's visibility and operational success.

### BIOSOC DTU – Research and Corporate | [\(Link\)](#)

- Managed annual tech fest events with more than 20,000 registrations. **Onboarded 5+ industry leaders** as panelists boosting engagement by 40%.

### Google Developer Student Club DTU (GDSC DTU), the student member (1500+ members)

- Facilitated a Google Cloud workshop for 20+ participants, guiding them through **cloud deployment and automation**, which improved their project efficiency by 35% in campus-wide hackathons.

## PROFESSIONAL CERTIFICATES

### Microsoft Certified: Azure AI Fundamentals (AI-900), MSLE AI Bootcamp – DTU - June 2025 | [\(Link\)](#)

- Demonstrated core skills in AI, machine learning, and responsible AI using **Azure services**, including computer vision and NLP. Gained hands-on experience with Azure Cognitive Services for AI solution design and deployment.

## EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- 1st Rank Holder in State Level Essay Writing Competition.
- BRAINWARS– Bain & Company Case Competition** | Pre-Finalist
- Member of Departmental Football team for **Arena Championship**
- Desh Ke Mentor**: Counseled 6 high school students regarding their goals and aspirations under the Delhi Government's "Desh Ke Mentor" program.