

# SHIVKUMAR DEVANE

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 [Portfolio Link](#)

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 [GitHub](#)

Software development enthusiast with experience in building scalable applications using React.js, Node.js, and SQL. Developed real-time platforms, interactive dashboards, and e-commerce systems with clean UI and efficient backend design. Seeking an SDE-1 role to apply problem-solving skills and technical expertise to develop innovative solutions for real-world challenges.

## EDUCATION

BTech (Bio-Technology) Minor (Computer Science)	2022-2026	Delhi Technological University, New Delhi	6.5 CGPA
CBSE (Class XII)	2022	D.A.V. Centenary Public School, Narela, New Delhi	92.8%
CBSE (Class X)	2020	D.A.V. Centenary Public School, Narela, New Delhi	96.4%

## EXPERIENCE

- Soul AI | Freelance – Engineering & Evaluation (Project Pluto)** August 2025 – Sept 2025
- Utilized analytical reasoning and statistical evaluation to identify patterns, assess AI output accuracy, and inform prompt refinements, leading to a 15%-20% improvement in model efficiency.
- TickerTactics Algorithms LLP | SDE Intern | [Link](#)** Sept 2025 – December 2025
- Worked directly with the founding and engineering teams to design, scale, and maintain **Python-based market data processing systems** for equities, crypto, futures, and options.
  - Developed **scalable data ingestion and transformation pipelines** on AWS EC2, leveraging **bash scripts, Linux shell commands, and cron jobs** for automation and reliability.
  - Optimized large-scale financial datasets by converting raw API outputs into **columnar Parquet formats**, improving downstream query and analysis performance by ~40%.
  - Built **data validation, reconciliation, and integrity-check modules** to ensure correctness across multiple trading APIs (ICICI Breeze, Upstox, Dhan, Binance).

## ACADEMIC PROJECTS

- Project 1: ShopAffordable – E-commerce Platform | [Link](#)** (Python, HTML, CSS, MySQL, SerpAPI)
- Developed an e-commerce platform with real-time inventory management. Analyzed sales and customer data to identify purchasing trends and optimize product recommendations. Visualized key metrics using Matplotlib dashboard
- Project 2: High-Performance Intraday Trading Terminal | [Link](#)** (React 19, WebSockets, JavaScript, State Management, CI/CD)
- Engineered a low-latency **intraday trading terminal** using Binance API WebSockets, 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, Supabase/PostgreSQL, D3-Sankey, React Beautiful DnD, Recharts)
- Engineered full-stack SPA with Supabase backend, implementing Row-Level Security (RLS) and JWT authentication for secure multi-tenant data management. Built **interactive Kanban board** using React Beautiful DnD with **real-time database sync**, auto-scroll detection, and optimistic UI updates handling 100+ application cards.
  - Implemented **D3-Sankey funnel visualization** to track application conversion rates across 6 stages, with dynamic gradient flows and company-level analytics. Designed responsive UI with scroll-triggered animations, achieving 95+ Lighthouse score through code-splitting and lazy loading. Deployed via CI/CD pipeline using GitHub Actions.
- Project 4: AudioPorter Pro – Low-Latency Audio Streaming Ecosystem | [Link](#)** (WebRTC, Node.js, Capacitor, Android Services, WebSockets, CI/CD)
- I addressed the limitation of being physically tethered to a PC for audio monitoring by engineering a **real-time WebRTC relay** that transforms any mobile device into a high-fidelity, low-latency wireless receiver for system audio. Developed 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).
  - Engineered a persistent Android background experience using Capacitor Foreground Services to enable uninterrupted audio playback while the mobile device is locked. Automated cross-platform delivery via GitHub Actions for APK generation and Render for secure (WSS) signaling and deployment.

## TECHNICAL SKILLS

Category	Skills & Tools
Programming	C++, Python, SQL, Perl, Rust, HTML, CSS, JavaScript
Data Analysis Tools	Power BI, Stata, Google Analytics, Tableau
Cloud & DevOps	Google Cloud, Git, AWS
Specialization	System Design, UI/Frontend Development, Applied Econometrics
Non-Tech Skills	MS Excell, MS Word, Canva (Advanced), Jira, Figma, 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 **1.4 lakh+ 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. **Secured funding of ₹10 lakh** 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. This included planning events, facilitating communication among members, and promoting the club's activities through marketing and outreach efforts.
- BiosocDTU – Research and Corporate | [Link](#)**  
Successfully managed annual technical fest of college and conducted tech events with more than 20K registrations. Secured 5+ industry leaders as panelists for Invictus 2025, boosting student engagement by 40%.
- Google Developer Student Clubs (GDSC DTU), the student member (1.5k+ inmates)**  
Led a Google Cloud workshop for 20+ participants, guiding them through cloud deployment and automation, which improved their project efficiency by 35% in a campus-wide hackathons. Led a Google Cloud workshop, improving participant project efficiency by 35%.

## EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- 1st Rank Holder** in State Level Essay Writing Competition.
- BrAINWARS – Bain & Company Case Competition | Pre-Finalist**  
Advanced to the pre-final round; gained experience in strategic thinking, data-driven decision-making, and collaborative problem-solving. Solved a live business case for Nexus Motors' EV market entry in India. Analyzed COGS and overheads across 3 cities, recommended optimal plant location, and evaluated procurement synergies from a strategic acquisition.
- 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.
- Habuild World Record Online Yoga Class (June 2025) | Participant [Link](#)**  
Joined 752,074 participants from 169 countries in the world's largest online yoga session, officially certified as a world record on International Yoga Day.

## 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.