

Devansh Kalura

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science

09/2022 – 05/2026

8.21/10 CGPA

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, C, C++
- **Web Technologies:** Node.js, Express.js, React.js, Next.js, EJS, GraphQL, WebSocket
- **Databases:** MySQL, MongoDB, SurrealDB, Azure Cosmos DB, DynamoDB
- **Cloud:** Azure, AWS, Git

WORK EXPERIENCE

BytEquity

02/2025 – 05/2025

Software Engineering Intern

Noida, Uttar Pradesh (Remote)

- Migrated a complex, production-level three-tier web application infrastructure from **Amazon Web Services (AWS)** to **Microsoft Azure**, using **Next.js**, **Python**, and **Azure MySQL**, resulting in a 30% faster deployment process and 15% reduction in infrastructure costs.
- Collaborated closely with UI/UX designers to revamp the frontend, leading to a 20% increase in user satisfaction and a 25% reduction in UI-related issue reports.
- Identified and resolved over 15 critical backend bugs, boosting system uptime from 96% to 99.5% based on internal monitoring data.
- Contributed to daily code reviews and version control using **GitHub**, making 80+ commits and ensuring code quality across a 5-member development team.

PROJECTS

CodeCraft X: Personalized Coding Practice Platform

09/2025 – 11/2025

Tech stack: Node.js, Next.js, MongoDB, Gemini API, CodeMirror, Judge0

- Developed a full-stack competitive programming platform, providing robust support for multiple coding languages.
- Integrated the Gemini API for an intelligent 'Coding Assistant', providing contextual hints for complex problems.
- Engineered an AI test case generator, letting users submit problems to create 10 valid test cases instantly.
- Curated comprehensive learning resources, including notes and video tutorials for over 15 DSA topics.
- Optimized the user experience (UX), resulting in a 30% increase in user engagement and challenge completion rates.

Real-Time Chat Application

06/2025 – 08/2025

Tech stack: Node.js, Next.js, Tailwind CSS, Socket.io, MongoDB

- Engineered a scalable real-time chat app supporting 500+ users with minimal latency and optimized performance.
- Implemented secure JWT-based authentication with role-based access control, ensuring user data privacy.
- Utilized bcrypt for password hashing, successfully blocking 100% of unauthorized login attempts during testing.
- Enabled end-to-end encryption for private conversations to maintain secure message transmission and data confidentiality.
- Deployed the application on Vercel with CI/CD pipelines supporting weekly code releases and zero downtime deployments.

End-to-End Data Pipeline: ETL

04/2025 – 05/2025

Tech stack: Python, Pandas, SurrealDB, UV - Astral, Tailwind CSS, Chart.js

- Built an ETL pipeline to extract, clean, and load 500+ rows from CSVs into SurrealDB for structured storage.
- Implemented systematic validation to detect and resolve various data quality issues during ingestion.
- Designed an interactive web interface for users to fix and clean erroneous data, improving dataset accuracy significantly.
- Crafted user-driven visualization feature supporting 10+ graph types, generated dynamically based on selected key points.
- Utilized Astral's uv for fast, reliable Python package and environment management, speeding development and deployment.

CERTIFICATIONS

- MERN Full Stack Developer Certification Program, Ethnus **01/2025 – 04/2025**
- AWS Solutions Architect – Associate Certification Program, Ethnus **01/2025 – 04/2025**