

Devansh Kalura

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science - 8.14 GPA

09/2022 – 05/2026

Bhopal, India

TECHNICAL SKILLS

- **Languages:** Python (Advanced), JavaScript, TypeScript, C, C++
- **Web Technologies:** Node.js, Express.js, React.js, Next.js, EJS, MongoDB, PostgreSQL
- **Cloud & DevOps:** Azure, AWS, Git
- **Other:** Data Structures & Algorithms (Proficient in Python and C++)

WORK EXPERIENCE

BytEquity

Software Engineering Intern

Feb 2025 – May 2025

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

Real-Time Chat Application

Dec 2024 – Jan 2025

- Designed and developed a real-time messaging application supporting 1,000+ concurrent users with **end-to-end encryption**, ensuring no data breaches during security testing.
- Implemented **Socket.io** for low-latency communication (under 100ms) and optimized performance to handle 3x expected user load.
- Built secure login using **JWT authentication** and role-based access control, blocking 100% of unauthorized attempts during testing.
- Tech Stack: **MongoDB**, **Express.js**, **React.js**, **Node.js**, **Socket.io**.

Urban Planning through Remote Sensing & AI

Sept 2024 – Apr 2025

- Created an AI-powered platform to analyze over 500 sq. km of satellite imagery for urban infrastructure planning.
- Applied **GIS** and remote sensing with **QGIS** to enhance land use decisions, improving accuracy by 15%.
- Trained machine learning models on spatial datasets, achieving 92% accuracy in forecasting urban growth trends.
- Visualized insights on interactive maps using **Google Maps API** and **React.js**.
- Tech Stack: **Python**, **QGIS**, **AI/ML**, **React.js**, **Google Maps API**.

Doctor Appointment Booking System

Feb 2024 – May 2024

- Developed a full-stack web application for clinics, managing 500+ monthly bookings and automating 90% of manual scheduling.
- Created a responsive frontend with real-time updates, reducing no-shows by 30% and receiving a 4.8/5 average user rating.
- Implemented admin and doctor dashboards for smooth coordination, maintaining 100% system uptime during pilot.
- Ensured data integrity through secure authentication and backend validation.
- Tech Stack: **Python**, **Django**, **SQL**, **HTML**, **CSS**, **JavaScript**.

CERTIFICATIONS

- **MERN Full Stack Developer Certification Program**, Ethnus, Jan–Apr 2025
- **AWS Solutions Architect – Associate Certification Program**, Ethnus, Jan–Apr 2025
- **The Web Developer Bootcamp**, Udemy — 2024
- **Cloud Computing**, NPTEL - 2023