Aditya Vikram Singh

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Education

Vellore Institute of Technology, Bhopal   *Oct 2022 – July 2026*
Bachelor of Science in Computer Science ,CGPA -8.45

St.Fidelis College   *April 2018 – May 2021*
Class XII, Percentage - 81 and Class X, Percentage -88   Lucknow, Uttar pradesh

Relevant Coursework: I have studied Object-Oriented Programming, Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, Software Testing, UI/UX Design, and Cloud Computing (Azure, AWS, GCP). My learning also includes Feature Engineering, Model Optimization, and Generative AI.

Research Interests: My interests include full-stack development, cloud-native applications, healthcare technology, and secure enterprise systems. I'm also focused on improving communication and logical reasoning in tech-driven environments.
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Skills

Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL, HTML5, CSS3

FrameworksLibraries: React.js, Node.js, Spring Boot, Angular (if applicable), TensorFlow, Bootstrap, jQuery, Express.js

Cloud & DevOps : Microsoft Azure, AWS (Lambda, RDS, S3), Google Cloud Platform (GCP), Git, GitHub Actions, CI/CD Pipelines.

Tools & Platforms : Visual Studio Code, IntelliJ IDEA, Postman, Figma, Azure App Services, Cloud Run, Cloud SQL

Development Expertise: : REST API Development, Full Stack Web Development, Secure Role-based Authentication, Enterprise Software Design, Healthcare Domain Knowledge (Claims & Appointment Systems)

Soft Skills: Troubleshooting , Advanced English in Communication, Team Work

Projects

Enterprise Billing Dashboard for SaaS Healthcare Platform |*TypeScript, JavaScript, MySQL, AWS*   *August 2023-October 2024*

- Designed a scalable **billing dashboard** using **TypeScript and Express.js**, handling 10K+ daily healthcare transactions.
- Deployed backend microservices to **AWS Lambda** and used **S3 for invoice management**.
- Achieved **50% faster invoice generation** via asynchronous API and load balancing.

Cloud-based Medical Appointment System |*TypeScript, JavaScript, PostgreSQL, Azure*   *February 2024-April 2024*

- Built a full-stack medical appointment system using **TypeScript, React, Node.js**, and **PostgreSQL**, enabling seamless scheduling and real-time calendar sync. .
- Deployed on **Microsoft Azure (App Services + SQL)** with automated CI/CD, achieving 99.9% uptime.
- Implemented **role-based access** and **HIPAA-compliant authentication** for patients, doctors, and admins. .
- Reduced no-shows by **45%** using Azure Logic Apps for automated email reminders.

Healthcare Claims Management System |*TypeScript, Angular, SQL Server, GCP*   *May 2024-July 2024*

- Hosted on **GCP using Cloud Run and Cloud SQL**, enabling scalable and secure deployment.
- Built normalized **SQL Server schema** and stored procedures for batch processing and auditing.
- Reduced claim processing time by **40%**, improving efficiency and user trust.

Achievements

- **Geeks of Geeks** – Solved over **300** questions on that platform**.**
- **Secured 2nd place in the General Knowledge Olympiad(Class 10).**
- **Achieved 2nd place in a school-level Kabaddi tournament as team (Class 12).**

Extracurricular Activities

- **Natioonal Service Scheme (NSS):** Led a team of **20 volunteers** to plant **10,000+ trees**.