

Parth Patil

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SUMMARY

Pre-Final Year Computer Science student (CGPA: 9.0) proficient in Java, MERN Stack, and AWS Cloud. Published researcher in IEEE Xplore with experience engineering scalable AI-integrated web applications and secure backend architectures. Developed real-time financial analytics dashboards and digital health platforms. Seeking Software Development Engineer (SDE) roles to apply full-stack development and cloud deployment expertise.

TECHNICAL SKILLS

Languages: Java, C++, JavaScript, Python Basics, SQL
Frontend: React.js, HTML5, CSS3
Core Concepts: DSA, OOP, DBMS, OS, Computer Networks

Backend: Node.js, Express.js, RESTful APIs, MongoDB
Tools & Platforms: AWS, Git, GitHub, Postman

PROJECTS

Health Ease | Backend Web Developer | <https://github.com/Parthpatil2605/Health-Ease> [Sept, 24 – Dec, 24]

A centralized digital health record platform designed for secure and efficient healthcare data management.

- Technologies: Node.js, Express.js, MongoDB, JavaScript, AWS, HTML, CSS
- Architected a secure backend with Node.js and Express.js, implementing JWT-based authentication to ensure robust stateless data protection for patient records.
- Accelerated data retrieval by ~35% through optimized MongoDB aggregation pipelines and compound indexing, enabling real-time doctor-patient interactions.
- Deployed a fault-tolerant application on AWS EC2 with custom security groups, achieving 99.9% server uptime under high-load testing conditions.

Market-Pulse AI | Full Stack Developer [May, 25 – Present]

A real-time financial intelligence dashboard leveraging Generative AI to analyze stock market sentiment.

- Technologies: React.js, Node.js, Express.js, MongoDB, Google Gemini AI, Tailwind CSS
- Integrated Google Gemini 2.5 Flash AI with Node.js to process live news streams, generating actionable stock market insights with high sentiment accuracy.
- Implemented a custom 12-hour caching strategy in MongoDB, cutting external API calls by 40% to circumvent rate limits and ensure service continuity.
- Enhanced frontend performance by refactoring React.js state management and debouncing, achieving sub-second rendering latency for real-time visualization.

EXPERIENCE AND PUBLICATIONS

Content Lead and Anchor | The Electric Vehicle Club, VIT Bhopal University [Feb, 24 – Present]

- Anchored flagship events for 300+ attendees and directed technical content strategy, driving a 15% increase in community engagement.

HealthEase: A Centralized Digital Health Record Platform for Secure and Efficient Healthcare Management

- Published in IEEE Xplore (WorldSUAS 2025); DOI: <https://doi.org/10.1109/WorldSUAS66815.2025.11199277>
- Authored a research paper validating the architecture of the Health Ease platform, focusing on secure data management and retrieval efficiency in healthcare systems.

EDUCATION

VIT Bhopal University

BTech in Computer Science and Engineering [2023-27]

CGPA: 9/10

CERTIFICATIONS

Google Bits and Bytes of Computer Networking, Fundamentals of AI and ML, Python Essentials, MATLAB Onramp, Programming in Java, NPTEL Machine Learning, Udemy The Complete Full Stack Web Development Bootcamp