Vinod Sharma

work.vinodsharma23@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

- Software Engineer with 2+ years of experience building scalable full-stack systems. Expertise in Python, TypeScript, and React with a focus on optimizing latency, reliability (99.9% uptime), and CI/CD pipelines. Proven success in replacing legacy tools with custom solutions, reducing costs, and automating workflows, AWS Certified.

EDUCATION

DePaul University   Chicago, IL
Master of Science in Computer Science   *Sep 2023 – June 2025*

- **Relevant Coursework**: Object-Oriented Software Development, Distributed Systems, Principles of Database Management Systems, Data structures & Algorithms.

Gujarat University   Gujarat, India
Bachelor of Computer Applications   *April 2019 – May 2022*

EXPERIENCE

Graduate Assistant – Full-Stack Developer   December 2024 – June 2025
DePaul University   *Chicago, IL*

- Architected REST API-driven microservices using Spring Boot and Node.js/Express, deployed on GCP for scalable, cloud-native solutions.
- Automated data synchronization for 200+ users with third-party API integrations, reducing manual errors by 50%.
- Implemented role-based access control (RBAC) with OAuth and SAML, improving security and compliance.
- Delivered a responsive React frontend, optimized for accessibility and performance.

Software Engineer - On Campus   June 2024 – November 2024
DePaul University — IRL Lab   *Chicago, IL*

- Developed backend services with Java (Spring Boot) and Node.js, integrating JWT/OAuth/SAML authentication for enterprise applications.
- Reduced latency by 60% with Nginx load balancing and API optimization, improving throughput by 40% on distributed systems.
- Engineered CI/CD pipelines with GitHub Actions and Docker, enabling 8x faster deployments with zero downtime.
- Designed and managed containerized services on Linux, ensuring 99.9% uptime for research platforms.

Full-Stack Web Developer – Intern   Feb 2023 – June 2023
Innomatic Research lab   *Hyderabad, India*

- Built full-stack systems with React, Node.js/Express, and MongoDB, serving enterprise-level users.
- Enhanced legacy modules through performance tuning and database optimization, boosting throughput by 25%.
- Collaborated in Agile sprints, leading code reviews and establishing coding standards for maintainability.

PROJECTS

AI-Powered Code Analyzer   Live Demo
- Developed and deployed a web application with Next.js, React, and TypeScript for AI-driven code analysis.
- Enabled users to upload code files and receive instant insights on security vulnerabilities, performance bottlenecks, and best practice improvements.
- Integrated OpenAI APIs for deep code analysis, providing developers with actionable recommendations.
- Designed a drag-and-drop interface for an intuitive user experience; deployed globally on Vercel.

Break Reminder Chrome Extension   Live Demo
- Built with React.js and TypeScript, serving 1000+ active users with real-time scheduling.
- Integrated REST APIs with fallback mechanisms, achieving 99.9% reliability.

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate**   Certificate

Technical Skills

Languages: Java, Python, TypeScript, JavaScript, SQL, HTML/CSS

Backend: Spring Boot, Node.js, Express, FastAPI, Microservices, RESTful APIs, JWT, OAuth, SAML

Frontend: React, Redux, Angular, Next.js

Databases : PostgreSQL, Cassandra, MongoDB, MySQL, Redis

Cloud & Tools : AWS, GCP, Azure, Docker, Kafka, Spark, Nginx, Git, CI/CD (GitHub Actions), JUnit, Jest, Linux, Load Balancing, SSL/TLS