Vinod Sharma

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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   December 2024 – June 2025
DePaul University   *Chicago, IL*
Optimized infrastructure for high-volume data processing and reliability

- Architected a REST API-driven web app (Node.js + Express) to replace SaaS tools, saving $200/month.
- Automated data extraction & synchronization for 200+ users by integrating WhenIWork API, eliminating manual entry.
- Implemented RBAC (Admin/Employee) and deployed behind load balancers to ensure 99.9% uptime.

Software Engineer   June 2024 – November 2024
DePaul University — IRL Lab   *Chicago, IL*
Optimized infrastructure for high-volume data processing and reliability

- Built secure backend services using Node.js/Express (Python-analogous) with JWT auth, role-based access, and bcrypt hashing.
- Reduced latency by 60% via Nginx load-balancing strategies, improving throughput by 40% for enterprise-scale traffic.
- Engineered CI/CD pipelines (GitHub Actions + Docker) to accelerate deployments 8x, ensuring zero-downtime releases.
- Containerized applications (Docker) and implemented SSL/TLS for secure operations across Linux-hosted environments.

Full Stack Web Developer   Feb 2023 – June 2023
Innomatic Research lab   *Hyderabad, India*
Delivered data-intensive full-stack solutions

- Designed horizontally scalable systems using React, Node.js, Express, and MongoDB.
- Boosted throughput by 25% via performance optimization of legacy modules and database tuning.
- Led agile cross-functional reviews, establishing coding standards for maintainability.

PROJECTS

Break Reminder Chrome Extension   Link
- * Developed with React.js + TypeScript, serving 1000+ active users.
- * Engineered background service workers for real-time scheduling and content injection scripts.
- * Integrated REST APIs with fallback mechanisms, achieving 99.9% content delivery reliability.

CERTIFICATIONS

- * AWS Certified Solutions Architect – Associate

TECHNICAL SKILLS

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

Backend: FastAPI (analogous to Express), RESTful APIs, Microservices, JWT

Frontend: React, Redux

Infrastructure : AWS, Docker, Nginx, Linux, Load Balancing

Databases : PostgreSQL, MongoDB, MySQL, Redis (coursework)

DevOps : CI/CD (GitHub Actions), SSL/TLS, Git

Testing : Jest, JUnit