

# Vineet Shah

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## EDUCATION

### San Jose State University

San Jose, CA

*Bachelor of Science in Computer Science*

*Expected: May 2027*

- GPA: 3.78
- Relevant Coursework: Data Structures & Algorithms, Operating and Distributed Systems, Object-Oriented Programming, Formal Language and Computing

## TECHNICAL EXPERIENCE

### San Jose State University

May 2025 – August 2025

*Software Engineering Intern*

*San Jose, CA*

- Built a monitoring system for internal services using **Prometheus** and **FastAPI**.
- Deployed containerized infrastructure via **Docker** and configured **NGINX** for caching and routing.
- Developed argparse- and **JSON**-based configuration logic to customize service health validation.
- Reduced detection latency by **60%** through performance tuning, metric debugging, and live diagnostics.

### Naran Lala Pvt. Ltd.

April 2023 - July 2023

*Software Engineering Intern*

*Gujarat, India*

- Developed internal tools to automate **inventory management** and production workflows.
- Improved operational efficiency by **23%** through backend automation and debugging **database bottlenecks**.
- Integrated system-level scripts with **Jenkins** for deployment and continuous testing.
- Refactored services to enable smoother communication between **distributed modules**.

## PROJECTS

### ReadWMe | *Nextjs, ReactJs, PostgreSQL, Groq API, Langchain, SocketIO, Puppeteer*

- Built a scalable backend with microservices for real-time **Reddit summarization** and interactive Q&A, supporting thousands of users.
- Integrated **LangChain** to deliver GenAI-powered answers and adaptive queries, enhancing user engagement.
- Reduced latency by **45%** using efficient **Socket.IO** streaming and asynchronous caching strategies.
- Implemented robust **monitoring** and optimized throughput for reliable, consistent performance.

### IdealMeal | *Flask, ReactJs, GeminiAPI, MongoDB, Google Places API, Tailwindcss*

- Developed an AI meal recommender using **GenAI** and cloud APIs to provide personalized, location-based suggestions.
- Leveraged **Gemini API** for natural language understanding and accurate user intent detection.
- Built a scalable backend with **MongoDB** and **Places API** for dynamic, adaptive results.
- Improved reliability and performance with advanced **caching**, **load balancing**, and automated CI/CD pipelines.

### SplitFree | *Flask, ReactJS, PostgreSQL, TailwindCSS*

- Designed distributed algorithms for efficient **debt settlement** across user groups, optimizing for speed and accuracy.
- Optimized **database queries** and indexing to enable fast computation and scalable performance.
- Built secure **REST APIs** with automated validation, comprehensive testing, and robust error handling.
- Simulated **concurrent loads** to ensure system resilience and reliability under real-world conditions.

### Fleetsure | *Java, OOP, Layered Architecture*

- Developed a modular vehicle management system using **layered architecture** for maintainability and scalability.
- Applied advanced **OOP principles** to create a reusable, extensible codebase for rapid feature development.
- Simulated business workflows for **inventory** and **customer management**, focusing on operational reliability.
- Optimized efficiency for scalable deployment in **distributed setups** and resource-constrained environments.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, Go, C++, C, TypeScript, SQL

**Cloud & Distributed Systems:** AWS (EC2, S3, Lambda), Docker, Nginx, Prometheus, SocketIO, REST APIs

**Frameworks & Tools:** Flask, ReactJS, NextJs, Django, FastAPI, TailwindCSS, Spring Boot, Git, CI/CD

**Databases:** PostgreSQL, MongoDB, MySQL, Redis (SQL & NoSQL)

**AI & GenAI APIs:** OpenAI API, Gemini API, LangChain, RAG Pipelines, Groq API, Google Places API