

# Vineet Shah

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## EDUCATION

### San Jose State University

Bachelor of Science in Computer Science

San Jose, CA

Expected: May 2027

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

## TECHNICAL EXPERIENCE

### SJSU Software and Computer Engineering Society

SCE System Status Monitoring Intern

May 2025 – August 2025

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

### ReadWM | Nextjs, ReactJs, PostgreSQL, Groq API, Langchain, SocketIO, Puppeteer

- Designed and deployed a modular backend architecture supporting scalable, low-latency service interactions.
- Integrated LangChain for RAG-based summarization and adaptive Q&A over live Reddit streams.
- Built real-time update channels via Socket.IO and streaming pipelines, reducing perceived latency by 45%.
- Applied advanced caching and async data retrieval to optimize throughput and API response consistency.

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

- Built a full-stack AI meal recommender translating natural language cravings into healthy local options.
- Leveraged Google Gemini API to process intent and semantic meaning from unstructured text inputs.
- Used MongoDB and Places API for dynamic, location-based suggestions and adaptive user learning.
- Improved API efficiency with caching layers and load-balanced Flask routes, boosting performance by 40%.

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

- Designed and implemented algorithms for minimal debt settlement across distributed transaction graphs.
- Tuned database indexing and query planning, reducing large-scale computation times by 50%.
- Developed secure and scalable REST endpoints with layered validation and comprehensive integration testing.
- Conducted concurrent load simulations to identify edge cases and improve backend resilience.

### Fleetsure | Java, OOP, Layered Architecture

- Built a dual-role vehicle management system (rental and sales) with modular controllers and service layers.
- Applied principles of encapsulation, inheritance, and polymorphism for robust class design and code reuse.
- Simulated real-time business workflows with dynamic inventory, customer, and employee management.
- Improved runtime efficiency and modularity through layered architecture and memory-optimized data handling.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, Linux, GO, HTML, SQL, C++, C

**Frameworks & APIs:** Flask, ReactJS, NextJs, Django, FastAPI, TailwindCSS, Spring Boot

**Databases & Tools:** PostgreSQL, MongoDB, MySQL, Prometheus, Nginx, Docker, Git, Nginx, Redis, SocketIO

**AI APIs:** OpenAI API, Gemini API, LangChain, RAG Pipelines, Grok API, Google Places API