

Gurshan Warya

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EDUCATION

San Jose State University

B.S. Software Engineering

Graduation: May 2026

San Jose, CA

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Mathematics, Assembly, Software Engineering I & II, Computer Organization, Object Oriented Design, Database Management Systems, Information Security, Operating Systems,
- **Organizations:** SJSU Software Engineering Society (Officer)

EXPERIENCE

Technical Founder

Refract (refract.so)

August 2023 – August 2024

Next.js, Cloudflare, AWS, SQL, Redis

- Created software for mass-creation and templating of UGC/general short form content
- Developed a react-based video editor with multi-track timeline, real-time preview, and frame-accurate scrubbing.
- Reduced render costs by >90% through distributed rendering across EC2's with automatic failover and retry mechanisms.
- Created real-time render monitoring system API overhead by 70% while providing live progress updates to users.

Software Engineer (Contract)

Founders Inc (f.inc)

August 2023 – August 2024

Next.js, GCP, Redis, SQL, Docker, FastAPI

- Developed AI agent for Google Ads keyword research and generation and publishing of SEO optimization.
- Created data pipeline for searching over hundreds of thousands of ads for browsing competitors ad libraries.

Software Engineering Intern

San Jose State University

May 2023 – August 2023

San Jose, CA

- Created a URL shortening service for a 500-member club using Python, FastAPI, SQLite, and Docker.
- Designed and implemented RESTful APIs for listing and searching stored URLs in SQLite with pagination.
- Configured NGINX as a reverse-proxy to route domain requests to services using DNS resolution and URL rewriting.

PROJECTS

StreamerStocks

streamerstocks.com

- Created a simulated stock trading platform for an Twitch streamer's community with ~3500 users and 4000+ trades a day.
- Implemented manipulation-resistant pricing using Supabase DB functions based off Ethereum's model.
- Simulated real-time market movements with an automated sentiment analyzer on Reddit and Twitch streams.
- Reduced trade history query time from 3.89s to 35ms by implementing Redis caching and DB replications.
- Built a data streaming pipeline using WebSockets for real-time trade history and stock price updates for accurate trading.

Clip Studio

clip.studio

- Created software to automate creation of brainrot tiktoks (5k mrr)
- Optimized database queries with caching strategy reducing database load by ~90% for frequently accessed assets.

Wisp

- Engineered a mobile app generation platform using React Native and LangGraph AI agents for automated app creation.
- Cut error rates from 35% to ~2% by implementing a custom durable function framework for retries and state persistence.
- Implemented an AI-driven code generation system using GNU diff patterns with automated error detection and resolution.
- Developed an automated deployment system for DNS configuration, VPS setup, and Nginx reverse proxy.

Zipp

gursheys.com/zipp

- Developed an encrypted file-sharing website using SvelteKit, Amazon S3, MySQL, and Golang.
- Implemented AES-256 and PBKDF2 for file encryption, managing metadata and hashes in MySQL with PlanetScale.
- Enabled decryption on password entry with a Golang backend, generating passwords using the Node.js crypto library.

TECHNICAL SKILLS

Languages/Frameworks: JavaScript, TypeScript, React, React Native, NodeJS, Python, SvelteKit, Golang, Bash, Java

Technologies: AWS, GCP, Github Actions, Jenkins, Vite, Nginx, SQL, Redis, Git, Docker, FastAPI, BigQuery