

# HUNTER NGUYEN

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## EDUCATION

### San Jose State University

Expected Graduation: May 2027

Bachelor of Science in Computer Science | GPA: 3.8

San Jose, CA

- **Organizations:** Software Engineering Society (Development Officer), Mozilla Responsible Computing Ambassador
- **Coursework:** Data Structures and Algorithms, Object-Oriented Design, Social Network Analysis, Computability

## EXPERIENCE

### San Jose State University

Sept. 2024 – May 2025

Undergraduate Researcher

San Jose, CA

- Analyzed MPNN-based models on sequential CAD operations to evaluate signs of learned engineering intuition
- Injected errors into parametric design sequences, measuring model sensitivity to unnatural modeling operations
- Led authorship of publication with Dr. Yunjian Qiu (Mech. Eng.) to be presented at **2025 IMECE** Conference

### SJSU College of Engineering

Sept. 2024 – Jan. 2025

Software Engineer

San Jose, CA

- Created school Discord bot with LangChain tool calling on educational services through natural language
- Streamlined retrieval of educational service endpoints using Groq's LPU-based AI inference, boosting efficiency
- Optimized API performance by implementing asynchronous processing, reducing response times by 20%

### NASA L'SPACE Mission Concept Academy

Sept. 2024 – Dec. 2024

Command & Data Handling Engineer

Remote

- Designed CDH subsystem for a **\$450MM** lunar rover, incorporating NASA's cFS for fault-tolerant operations
- Utilized SpaceWire for high-speed data transfer, interfacing with the BAE RAD750 and S-band telemetry
- Collaborated with a cross-functional team to ensure compliance with CCSDS and improve overall system reliability

### SJSU Software and Computer Engineering Society

Jun. 2024 – Aug. 2024

Software Engineer Intern

San Jose, CA

- Created REST APIs in Node.js to perform CRUD operations on data stored in MongoDB with Express.js for club site
- Restricted user actions in admin dashboard in Express.js, preventing 50+ officers from modifying higher-role users
- Deployed comprehensive unit tests with Mocha/Chai in Node.js to enhance code reliability and deployment cycles

## PROJECTS

### filosophy | Python, FastAPI, Next.js, TypeScript, LlamaIndex, Gemini API, MongoDB, Tailwind CSS

- Engineered an AI platform to auto-fill medical forms from video input for non-native English speakers
- Structured an ETL pipeline to extract transcripts and store metadata in MongoDB Atlas for form generation
- Applied LlamaIndex for extraction of uploaded docs and Gemini API to interpret user transcripts for processing
- Winner of **"Best Biotech"** and **"Best People of Color Empowerment"** awards out of 75 teams at SFHacks 2025

### Spectra | Python, FastAPI, LangChain, LangGraph, Next.js, TypeScript

- Developed Python SDK for real-time agent workflow monitoring, tracing state, timing, and errors via JSON logging
- Implemented red teaming with adversarial prompts and structured vulnerability detection in agent workflows
- Created an interactive dashboard with Next.js and Shadcn UI to visualize agent behavior and failure modes
- Awarded **1st in AI Safety** and **Grand Prize** at AgentHacks 2025 (sponsored by OpenAI, Anthropic, Shopify, etc.)

### FireZero | Next.js, TypeScript, Python, Gemini API, Mapbox

- Built a fire risk dashboard for CalGovOps using public safety and utility data to score and assess building-level risk
- Trained a random forest model to predict fire spread using proximity, utility usage, and fire history data
- Used Gemini API to generate risk summaries and recommendations from processed infrastructure data
- Won **2nd place** overall in **"Best Hack for Social Good"** out of 160 teams at UC Davis' HackDavis 2025 hackathon

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js, Express.js, Next.js, FastAPI, PyTorch, LangChain, Tailwind CSS

**Developer Tools:** Git, GitHub, Docker, MongoDB, Postgres, Supabase, SQLite, Drizzle, Prisma

**Certifications:** Machine Learning Specialization, Artificial Intelligence