HUNTER NGUYEN

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EDUCATION

San Jose State University   **Expected Graduation: May 2026**
Bachelor of Science in Computer Science | GPA: 3.8   *San Jose, CA*
- **Coursework**: Data Structures/Algorithms, Object-Oriented Design, Intro to Computer Systems, Discrete Math
- **Organizations**: Software and Computer Engineering Society (Officer), Mozilla Student Ambassador

EXPERIENCE

SJSU College of Engineering   Sept. 2024 – Present
Undergraduate Researcher   *San Jose, CA*
- Researching real-time constraint-embedded design validation in 2D engineering designs with CPNs and cGANs.
- Fine-tuned ML and LLM pipelines in Keras and LangChain, improving accuracy by ∼**20%** for text retrieval.
- Created custom dataset of **15,000+** annotated 2D engineering designs with embedded constraints through preprocessing and automated labeling.

theCoderSchool   Jun. 2024 – Present
Coding Instructor   *Los Gatos, CA*
- Mentoring **10+** students in Scratch, Python, and Java, going through project-based and personalized instruction.
- Facilitating code camps with **5** other peers in various technologies and applications.

NASA L'SPACE Mission Concept Academy   Sept. 2024 – Dec. 2024
Software Engineer   *Remote*
- Developed software architecture connecting 4 subsystems for a **$450M** lunar rover, improving mission efficiency.
- Integrated BAE RAD750 and S-band system, achieving 2 Mbps uplink, 10 Mbps downlink, and **99.9%** reliability.

Software and Computer Engineering Society   Jun. 2024 – Aug. 2024
Software Engineer Intern   *San Jose, CA*
- Spearheaded design of system monitoring app with Prometheus and Grafana, providing real-time monitoring.
- Designed scripts to draw data from user's computer in real-time with C using various libraries from different OS.
- Created RESTful APIs in Node.js to perform CRUD operations on data stored in MongoDB with Express.js.

Schoolhouse.world   Jul. 2023 – Jun. 2024
Community Moderator, Senior Tutor   *Remote*
- Taught **50+** sessions of educational computer science content to **75+** students worldwide, keeping **90%** retention.
- Conducted regular assessments and provided feedback, resulting in measurable improvement in coding skills.
- Engaged with a worldwide community of **55,000+** members, personally announcing events and updates.

PROJECTS

Secure Send | *TypeScript, Next.js, Supabase, PostgreSQL, Web Crypto API, AES-GCM Encryption*   Jan. 2025
- Created a secure file-sharing application with client-side encryption to protect uploaded sensitive data.
- Integrated Supabase for secure file storage and retrieval, utilizing Supabase Storage for file handling and Supabase Auth for user authentication.
- Built reusable TypeScript utilities for file validation, encryption, and upload handling.

SCE-Advisor | *C, Prometheus, Grafana, Docker, Git*   Jun. 2024 - Aug. 2024
- Implemented WebSockets to draw **8** different hardware processes including CPU and RAM usage for a club app.
- Connected Prometheus and Grafana to the Dockerized server to see Prometheus-parsed data in Grafana dashboard
- Built an HTTP web server with C using socket programming.

FastAPI Book Manager | *Python, FastAPI, Pydantic, SQLite, Docker*   Sept. 2024
- Engineered a Dockerized RESTful API app with FastAPI and SQLite, reducing query response times by **30%**.

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, HTML/CSS
Frameworks: React, Node.js, Next.js, Express.js, FastAPI, Tailwind CSS, Tensorflow (Keras)
Developer Tools: Git, GitHub, LangChain, Docker, MongoDB, Supabase
Additional Certifications: Machine Learning Specialization, Python, AI