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 – Present
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.
- Leading 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

fillosophy | *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.

AVA (Accessible Voice Assistant) | *Python, FastAPI, Groq, Perplexity, LangChain, ElevenLabs*
- Built a voice-controlled browser with Browser Use multi-stage agents allowing hands-free web navigation via voice.
- Streamlined AI workflows with a pipeline using Groq for transcription and Perplexity Sonar for task reasoning.
- Utilized LangChain to develop custom agentic workflows, automating tasks for sending emails and booking flights.
- Won **"Best Use of Groq"**, placing **1st out of 37 teams** at Cal State East Bay's HackHayward 2025 hackathon.

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