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*
- **Organizations**: Software Engineering Society (Development Officer), Mozilla Responsible Computing Ambassador
- **Coursework**: Data Structures and Algorithms, Object-Oriented Design, Intro to Computer Systems, Discrete Math

EXPERIENCE

San Jose State University — Sept. 2024 – Present
Undergraduate Researcher — *San Jose, CA*
- Created a structured extraction pipeline for 3D designs (.f3d, .step, .iges) with Fusion 360 API for AI validation.
- Built PyTorch model to adapt to extracted design features, refining constraints via design's timeline step analysis.
- Author publication with Prof. Yunjian Qiu (Mech. Eng.) to be presented at **2025 IMECE** Conference (CAD Track).

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

AVA (Accessible Voice Assistant) | *Python, FastAPI, Groq, Perplexity, LangChain, ElevenLabs*
- Built a voice-controlled browser navigation tool with Browser Use multi-stage AI agents to promote browsing use.
- 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.

fillosophy | *Next.js, TypeScript, FastAPI, LlamaIndex, Gemini API, MongoDB, Tailwind CSS*
- Developed an AI assistant to autofill medical forms via video inputs, enhancing accessibility for immigrants.
- 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 Hack"**, placing **1st out of 75 teams** at San Francisco State's SFHacks 2025 hackathon.

shrinq.link | *Next.js, TypeScript, SQLite (libSQL), JWT, Redis, Drizzle ORM, Tailwind CSS, Vercel*
- Designed a URL shortener with Next.js and SQLite supporting custom aliases, click analytics, and JWT user auth.
- Integrated JWT-based authentication using jose with middleware to secure routes and verify user sessions.
- Wrote REST API routes for URL/user management in Next.js, using Drizzle ORM for efficient database interactions.
- Implemented caching with Redis to store accessed URLs, cutting database query response times by 60%.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS
Frameworks: React, Node.js, Express.js, Next.js, FastAPI, PyTorch, LangChain, Tailwind CSS, TestRail
Developer Tools: Git, GitHub, Docker, MongoDB, Postgres, Supabase, SQLite, Drizzle, Prisma
Certifications: Machine Learning Specialization, Artificial Intelligence