NUTTHAWAT PANYANGNOI

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Career Objective

I have always been fascinated by computers, starting from a young age assembling hardware and experimenting with configurations. Through my studies and internships, I've gained hands-on experience building full-stack applications, developing mobile apps, training deep learning models, and assembling high-performance servers. I'm eager to continue learning and apply my skills to innovative projects in the technology industry.

EDUCATION

San Jose State University, San Jose, CA   **May 2025**
B.S. Computer Engineering, Minor: Computer Science

Las Positas College, Livermore, CA   **May 2022**
A.S. Computer Science, Minor: Math

Technical Skills

Programming: C, C++, Python, JavaScript, SQL, Verilog, HTML, CSS, mySQL, PostgreSQL, MongoDB, React
Deep Learning / ML: PyTorch, TensorFlow, NumPy, Scikit-learn, OpenCV, Jupyter, CUDA
Embedded Systems: Raspberry Pi CM4, TI MSP430, FPGA (Verilog/SystemVerilog), LTspice, Oscilloscope
Tools: Docker, VMware, Vivado, SolidWorks, Figma, Bash, Powershell, Zshell, REST API, Kubernetes
Hardware: BIOS Flashing, RAID, VPN, NAS, Diagnosing hardware, Hardware Troubleshooting
Operating Systems: Linux, Windows, macOS

Work Experience

NASA Proposal Writing and Evaluation Experience   Aug 2024 – Dec 2024
Computer Engineer   Remote

- Conducted technical research on high-voltage battery tech for space missions, with laser charging integration.

- Pitched and co-authored an innovation proposal selected by NASA MSFC for further development.

- Collaborated with engineers to review innovative proposals and gained hands-on experience developing prototypes.

NASA Mission Concept Academy   Jan 2024 – Aug 2024
Program Analyst & Computer Engineer   Remote

- Worked with engineers on a simulated NASA Discovery Mission to execute a lunar water sample collection operation.

- Managed project timeline forecasting for major designed milestones (MCR, SRR, MDR) using NASA tools.

- Conducted entire mission cost estimation, resource analysis, instruments cost using NICM CERs/SERs and MCCET.

Mountain Cascade, Inc.   Mar 2020 – Aug 2023
IT Technician (Full-time)   Livermore, CA

- Provided comprehensive IT support, diagnosing hardware and software issues in Windows server environment.

- Performed hands-on BIOS flashing, RAID setup, VPN configuration, NAS setup, and server maintenance.

- Managed hardware lifecycle: break/fix, deployments, upgrades, and service requests.

Amber System Technology   **Apr 2018 – Mar 2020**

Frontend Software Developer (Part-time)   Pleasanton, CA

- Developed and customized POS system UI to meet business clients' specific requirements.

- Led frontend development to ensureing align with customer requirements and their business goals.

- Built full-stack web applications leveraging modern technologies to address customer requirements.

Projects

FoodReal iOS Application (React Native, Tailwind, Expo, Firebase)   **In Progress**
- Building mobile app to encourage home cooking and food sharing with social engagement.

- Designed intuitive swipe-based interface with engaging UI.

Handheld Computing Device (C, C++, Linux, KiCad, LTspice, Raspberry Pi CM4)   **In Progress**
- Engineered modular computing system using Raspberry Pi CM4 and ClockworkPi v3.14.

- Built custom Linux OS including bootloader setup, device tree config, and optimization.

Note Hub Web Application (Python, Flask, SQLAlchemy, Django)   **Apr 2023**
- Created Notion-inspired web app with Flask and SQLite for note management.

- Implemented secure session-based user authentication.

Neural Network Classifier for Iris Dataset (PyTorch, NumPy, Pandas, Python)   **May 2025**
- Trained CNN on sign language dataset and deployed model to Raspberry Pi with webcam.

- Optimized inference with PyTorch quantization; evaluated latency and accuracy.

Certifications

NASA L'SPACE Mission Concept Academy   **Aug 2024**
- Completed 3.5-month program simulating NASA Discovery mission design process.

NASA Proposal Writing Evaluation Experience   **Dec 2024**
- Completed a 3.5-month pitch and research program; co-authored a proposal with NASA MSFC on high-voltage laser-chargeable battery innovation.

Google Foundations of Data Science   **Jun 2025**
- Completed professional training in data science foundations and analysis tools.

Google Get Started with Python   **Jun 2025**
- Completed Python programming course for data analysis and problem-solving.

LinkedIn: Computer Components and Peripherals for IT Technicians   **Jun 2025**
- Completed training on hardware peripherals for IT technicians.