

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
B.S. Computer Engineering, Minor: Computer Science

Dec 2025
GPA: 3.327/4.0

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

May 2022
GPA: 3.5/4.0

Technical Skills

Programming: C, C++, Python, JavaScript, SQL, Verilog, HTML, CSS
Deep Learning / ML: PyTorch, TensorFlow, NumPy, Scikit-learn, OpenCV, Jupyter, CUDA
Embedded Systems: Raspberry Pi CM4, FPGA (Verilog/SystemVerilog), LTspice, Oscilloscope, KiCad
Software: Docker, VMware, Vivado, SolidWorks, Office 365, Figma
Hardware: IT Support, BIOS Flashing, RAID, VPN, NAS, 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 ensure 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) <ul style="list-style-type: none">• Building mobile app to encourage home cooking and food sharing with social engagement.• Designed intuitive swipe-based interface with engaging UI.	In Progress
Handheld Computing Device (C, C++, Linux, KiCad, LTspice, Raspberry Pi CM4) <ul style="list-style-type: none">• Engineered modular computing system using Raspberry Pi CM4 and ClockworkPi v3.14.• Built custom Linux OS including bootloader setup, device tree config, and optimization.	In Progress
Note Hub Web Application (Python, Flask, SQLAlchemy, Django) <ul style="list-style-type: none">• Created Notion-inspired web app with Flask and SQLite for note management.• Implemented secure session-based user authentication.	Apr 2023
Neural Network Classifier for Iris Dataset (PyTorch, NumPy, Pandas, Python) <ul style="list-style-type: none">• Trained CNN on sign language dataset and deployed model to Raspberry Pi with webcam.• Optimized inference with PyTorch quantization; evaluated latency and accuracy.	May 2025

Certifications

NASA L'SPACE Mission Concept Academy <ul style="list-style-type: none">• Completed 3.5-month program simulating NASA Discovery mission design process.	Aug 2024
NASA Proposal Writing Evaluation Experience <ul style="list-style-type: none">• Completed a 3.5-month pitch and research program; co-authored a proposal with NASA MSFC on high-voltage laser-chargeable battery innovation.	Dec 2024
Google Foundations of Data Science <ul style="list-style-type: none">• Completed professional training in data science foundations and analysis tools.	Jun 2025
Google Get Started with Python <ul style="list-style-type: none">• Completed Python programming course for data analysis and problem-solving.	Jun 2025
LinkedIn: Computer Components and Peripherals for IT Technicians <ul style="list-style-type: none">• Completed training on hardware peripherals for IT technicians.	Jun 2025