

# NUTTHAWAT PANYANGNOI

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## Career Objective

Versatile Computer Engineer with hands-on experience in full-stack development and IT infrastructure. Proven track record in frontend development, building real-world solutions in production environments. Proficient in Python, JavaScript, SQL, and React, with expertise in Linux-based systems. Eager to leverage technical skills to drive innovative solutions as a Full Stack Engineer.

## EDUCATION

### San Jose State University

Dec 2025

B.S., Computer Engineering - GPA: 3.327/4.0

### Las Positas College

May 2022

A.S., Computer Science - GPA: 3.4/4.0

## 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, JetBrains products
- 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

- Collaborated with engineers on a simulated NASA Discovery Mission to execute a lunar water sample collection operation, enhancing mission readiness and operational efficiency
- 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

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, ensuring efficient operations and timely resolution of technical issues

### Amber System Technology

Apr 2018 - Mar 2020

Frontend Software Developer

Pleasanton, CA

- Developed and customized POS system UI to meet business clients' specific requirements.
- Led frontend development to align with customer requirements and business goals, improving project delivery and client engagement
- Built full-stack web applications leveraging modern technologies to address customer requirements.

## Projects

### FoodReal iOS Application (React Native, Tailwind, Expo, Firebase)

Present

- 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)

Present

- 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)**

- Trained CNN on sign language dataset and deployed model to Raspberry Pi with webcam.
- Optimized inference with PyTorch quantization; evaluated latency and accuracy.

### **Certifications**

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- **NASA L'SPACE Mission Concept Academy:** Completed 3.5-month program simulating NASA Discovery mission design process.
- **NASA Proposal Writing Evaluation Experience:** Completed a 3.5-month research program; co-authored a proposal with NASA MSFC on high-voltage laser-chargeable battery innovation.
- **Google Foundations of Data Science:** Completed professional training in data science foundations and analysis tools.
- **Google Get Started with Python:** Completed Python programming course for data analysis and problem-solving.
- **LinkedIn: Computer Components and Peripherals for IT Technicians:** Completed training on hardware peripherals for IT technicians.