Nutthawat Panyangnoi

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**EDUCATION**

Bachelor of Science: Computer Engineering **Expected in 12/2025**

San Jose State University San Jose, CA

Associate of Science: Computer Science, **Minor in Mathematics** **05/2022**

Las Positas College Livermore, CA

* ***Dean’s List Awarded***

**TECHNICAL SKILLS**

**Programming Languages:** C, C++, Python, JavaScript, SQL, Verilog, HTML, CSS

**Machine Learning & Deep Learning:** PyTorch, TensorFlow, NumPy, Scikit-learn, OpenCV, Jupyter, CUDA

**Embedded Systems & Circuit Design:** Raspberry Pi CM4, FPGA (Verilog/SystemVerilog), LTspice, Oscilloscope, KiCad

**Software & Tools:** Docker, VMware, Vivado, SolidWorks, Office 365, Figma

**Hardware & IT Support:** BIOS flashing, RAID, NAS and VIP configuration, hardware troubleshooting

**Operating Systems:** Linux, Windows, macOS

**WORK EXPERIENCE**

IT Technician 03/2020 to 08/2023

Mountain Cascade, Inc. Livermore, CA

* Provided end-to-end IT support by identifying, troubleshooting, and resolving hardware and software issues in a busy corporate environment.
* Performed hands-on technical work including BIOS flashing, RAID configuration, VPN setup, and regular maintenance of servers and workstations.
* Managed the company’s hardware inventory while coordinating repairs, system upgrades, and workstation setup for new and existing staff.

Frontend Software Developer 04/2018 to 03/2020

Amber System Technology Pleasanton, CA

* Designed and refined the user interface of point-of-sale systems to ensure smooth navigation, visual appeal, and ease of use for business clients.
* Led front-end development of custom software by collaborating with clients to understand their goals and turning those into functional features.
* Developed and maintained full-stack web applications that improved operational workflows and provided scalable long-term solutions for small businesses.

**PROJECTS**

**FoodReal iOS Application** (React Native, Tailwind, Expo, Firebase)                       **In Progress**

* Designing a mobile app that promotes home-cooked meals and social food sharing through swipe-based interaction.

**Handheld Computing Device** (C, C++, Linux, KiCad, LTspice, Raspberry Pi CM4)              **In Progress**

* Developed a modular pocket computer using the Raspberry Pi CM4 and ClockworkPi mainboard
* Create a custom Linux OS based on Ubuntu Distribution.

**Note Hub Web Application** (Python3, Flask, SQL Alchemy, Django) **Apr 2023**

* Built a web-based note-taking platform inspired by Notion, allowing users to create, update, and delete notes.
* Implemented secure login system and session management using Flask and SQLite for lightweight deployment.

**Neural Network Classifier – Iris Dataset** (PyTorch, NumPy, Pandas, Python, Scikit-learn) **May 2025**

* Implemented a supervised neural network model to classify Iris flower species, leveraging linear regression as a baseline for comparison.
* Implemented model training with Adam optimizer and cross-entropy loss, tracking evaluation accuracy on test data.

**Square & Triangular Waveform Generator Circuit** (LTspice, Schmitt-Trigger CD-40106, Oscilloscope) **May 2023**

* Designed and simulated a waveform generator using LTspice to produce square and triangular wave outputs across varying frequencies, leveraging a Schmitt-Trigger (CD-40106) and BC547B transistor, then constructed and tested the circuit on a breadboard, verifying functionality with an oscilloscope and confirming design accuracy against simulation results

**CERTIFICATIONS**

**NASA L'SPACE Mission Concept Academy** – NASA L'SPACE | Aug 2024

* Completed a 3.5-month training simulating the NASA Discovery mission lifecycle, including concept planning, systems design, and milestone reviews.

**NASA Proposal Writing and Evaluation Experience** – NASA Marshall Space Flight Center | Dec 2024

* Participated in a NASA-led innovation initiative; co-authored a selected proposal on high-voltage, laser-chargeable battery systems for space missions.

**Foundations of Data Science** – Google | Jun 2025

* Trained in data collection, interpretation, and foundational analytics; completed exercises in data handling and real-world scenarios.

**Get Started with Python** – Google | Jun 2025

* Completed project-based Python training with emphasis on scripting, data analysis, and solving practical programming problems.

**Computer Components and Peripherals for IT Technicians** – LinkedIn Learning | Jun 2025

* Gained knowledge in computer hardware, peripheral devices, and IT support fundamentals including system diagnostics and maintenance.