

NUTTHAWAT PANYANGNOI

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Education

San Jose State University

Bachelor of Science in Computer Engineering, Minor in Computer Science

Aug 2022 – May 2025

San Jose, CA

Las Positas College

Associate of Science in Computer Science, Minor in Math

Aug 2018 – May 2022

Livermore, CA

King Mongkut's University of Technology Thonburi

Bachelor of Science in Computer Science

(Did not complete the degree due to family relocation to U.S.)

May 2010 – June 2012

Bangkok, Thailand

Relevant Coursework

- Software Engineering
- Embedded Systems
- Microprocessors Design
- OS Design
- Digital Circuit Design
- SQL
- Computer Architecture
- Assembly Language (MIPS, NASM, MASM)
- Advanced data structures and algorithms
- Computer Networks
- Machine Learning

Technical Skills and Qualifications

Programing: Python, CSS, HTML, mySQL, React, React Native, C/C++,Java, Javascript, MongoDB, NodeJS, PHP, HDL (Verilog/ SystemVerilog.)

Tools and Frameworks: Git / GitHub, GDB (Debuggers), SPICE (LtSpice), Flask, Numpy, Pandas, Pytorch, SOLIDWORKS, Adobe Creative Suit, Microsoft Office, VMware, Docker, Timberline Accounting, Sage, and HCSS.

Shell: BASH Script, and Window Power Shell.

Networking: TCP/IP, DNS/DHCP, NAS, and VPN Configuration.

Hardware: Schematics, Testing devices (Oscilloscopes, Multimeters, Frequency generators), and soldering.

Language: English, Thai

Experience

NASA (NASA L'SPACE Proposal Writing Academy)

August 2024 - Present

Researcher

Remote

- Collaborating with interdisciplinary teams to design innovative solutions to NASA challenges.
- Leading the drafting and submission of a comprehensive innovation proposal.
- Developing a prototype using NX CAD and producing documents including Quad Chart, Org Chart, and Shell Doc.

NASA (NASA L'SPACE Mission Concept Academy)

April 2024 – August 2024

Program Analyst and Computer Hardware Engineer

Remote

- Conducted cost estimation using MCCET and NICM CER/SER methodologies.
- Led mission scheduling and facilitated timely collaboration between cross-functional teams for simulation projects.
- Verified and engineered subsystem requirements for Command and Data Handling (CDH) systems

Mountain Cascade, Inc

March 2020 - August 2023

IT technician

Livermore, CA

- Delivered comprehensive technical computer support service for engineers, project managers and field workers over.
- Diagnosed and resolved complex hardware and software issues, with a specialization in Windows environments.
- Enforced security policies on servers to ensure data integrity and protection,aligning with organizational objectives.

Amber System Technology

April 2018 - March 2020

Frontend Software Engineer

Pleasanton, CA

- Create intuitive UX/UI designs for POS systems improved 50% user experience , based on customer feedback.
- Oversee web content and development projects, ensuring consistency with branding aligned to client requirements.
- Offered technical customers support via Cisco VoIP, for efficient and effective problem resolution.

Volcano Splash Drinks (Small Family Business)

August 2013 - December 2018

Barista and Operations Lead

Tracy, CA

- Handled dialy complex operational challenges including inventory, staff training, and customer service.
- Optimized business layout and processes, enhancing customer flow and operational efficiency
- Implemented solution operating procedures, ensuring consistent delivery of top-quality customer service

Projects

Personal Project:Neural Network Machine Learning (Python, Pytorch, Pandas, Numpy)

2024

- Implemented Nueral Network model that achieving 85% accuracy on test data

Course Project:Note Hub (Python, Flask, SQLAlchemy, Jinja2, EmailValidator, Anaconda)

2023

- NoteHub is the Note Web application built with Flask python framework, WTforms, SQL alchemy, and Jinja web template engine.

Course Project:Encryption Decryption program (NASMx86 64-bit)

2021

- Assembly programing x86 64bits Encryption and Decryption File.

Extracurricular and Leadership

Las Positas College Computer Engineering Club

Aug 2018 – 2019

Role: Secretary

- Organized and documented club meetings, managing official records and communications with club members

CUBE3 Satellite Club

Aug 2024 – Present

Role: Controls (Programmer)

- Collaborate with group of engineering developing software to control the Satellite

Tau Beta Pi Engineering Honor Society

January 2023 – Present

Active member

- Participating in activities that support the selection of new candidates and offer tutoring services.

MESA Engineering SJSU

Aug 2022 – Present

Active member

SJSU Software Engineering club

Aug 2022 – Present

Active member

SJSU Machine learning

Aug 2023 – Present

Active member

SJSU Competitive programing

Aug 2024 – Present

Active member

CERTIFICATIONS & AWARDS

Dean's List — San Jose State University Fall 2022

Dean's List — Las Positas College Fall 2021

LPC Photographer Awards – Las Positas College Fall 2019

LPC EOPS Awards- Las Positas College Fall 2019 – Spring 2022