NUTTHAWAT PANYANGNOI

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Education

San Jose State University   **Aug 2022 – May 2025**
Bachelor of Science in Computer Engineering, Minor in Computer Science   San Jose, CA

Las Positas College   **Aug 2018 – May 2022**
Associate of Science in Computer Science, Minor in Math   Livermore, CA

King Mongkut's University of Technology Thonburi   **May 2010 – June 2012**
Bachelor of Science in Computer Science   Bangkok, Thailand
(Did not complete the degree due to family relocation to U.S.)

Technical Skills and Qualifications

Programing: Python, CSS, HTML, mySQL, React, React Native, C/C++,Java, Javascript, MongoDB, NodeJS, PHP, HDL (Verilog/ SystemVerilog)
Tools & Frameworks: Git / GitHub, GDB (Debuggers), SPICE (LtSpice), Flask, Numpy, Pandas, Pytorch, SOLIDWORKS, Adobe Creative Suit, Microsoft Office, VMware, Docker, Timberline Accounting, Sage, HCSS
Shell: BASH Script, Window Power Shell
Networking: TCP/IP, DNS/DHCP, NAS, VPN Configuration
Hardware & Electrical: Schematics, Testing devices (Oscilloscopes, Multimeters, Frequency generators), soldering
Language: English, Thai

Relevant Coursework

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

Experience

NASA (NASA L'SPACE Proposal Writing Academy)   **August 2024 - Present**
Researcher   Remote

- Collaborating with multi-disciplinary teams on develop the innovative solutions proposal to NASA's pain points.
- Design initial prototype product by using NX CAD.
- Produce four key documents to complete the innovation proposal idea: Quad Chart, Org Chart, Shell Doc, Proposal

NASA (NASA L'SPACE Mission Concept Academy)   **April 2024 – August 2024**
Program Analyst & Computer Hardware Engineer   Remote

- Conducted cost estimation for simulated on lunar mission, using methodologies: MCCET and NICM CERs/SERs.
- Managed mission schedules from prelaunch to closeout, collaborating with project managers, scientists, and engineers.
- Engineered and verified the requirement of the subsystems Command and Data Handling (CDH) for the mission.

Mountain Cascade, Inc   **March 2020 - August 2023**
IT technician & IT manager   Livermore, CA

- Provided comprehensive technical computer support service for engineers, project managers and field workers.
- 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
Frontend Software Engineer

April 2018 - March 2020

Pleasanton, CA

- Create intuitive UX/UI designs for POS systems to improve user experience and customer engagement.
- Oversee web content and development projects, ensuring consistency with branding aligned to client requirements.
- Offered technical cumstomers support via Cisco VoIP, for efficient and effective problem resolution.

Volcano Splash Drinks (Small Private Family business)
Barista and Operations Lead

August 2013 - December 2018

Tracy, CA

- Managed business layout and processes, significantly enhancing customer flow and operational efficiency
- Optimized business layout and processes, significantly 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**
- Implement Neural Network that can predict the number from the user prompt.

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**
- Implementing Assembly programing x86 64bits Encryption and Decryption File.

Extracurricular

CUBE3 Satellite Club
Controls (Programmer Active Member)

Aug 2024 – Present

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

SJSU Competitive programing
Regular Active member

Aug 2024 – Present

- Regularly solve challenges programming question to improve coding proficiency and prepare for programming competitions.
- Participate in competitive programming contests to apply skills in real-time scenarios and improve problem-solving speed and accuracy.

SJSU Machine learning
Regular Active member

Aug 2023 – Present

- Participate in collaborative research and implementation of various machine learning projects, contributing to the development and refinement of models, algorithms, and applications.

Tau Beta Pi Engineering Honor Society
Regular Active member

January 2023 – Present

- Participate in club meetings, events, and activities aimed at promoting professional development, community service, and academic collaboration.
- Engage in networking opportunities with distinguished professionals, alumni, and fellow members to enhance career prospects and technical knowledge.

SJSU Software Engineering club
Regular Active member

Aug 2022 – Present

- Contribute to discussions on software engineering best practices, coding standards, and technologies

MESA Engineering SJSU
Regular Active member

Aug 2022 – Present

- Participate in academic enrichment programs, workshops, and events aimed at supporting underrepresented students in engineering, mathematics, and science.
- Engage in leadership and professional development opportunities provided by MESA, such as networking events, career panels, and mentorship programs.