

NUTTHAWAT PANYANGNOI

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EDUCATION

King Mongkut's University of Technology Thonburi

Bachelor of Science in Computer Science

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

May 2010 – June 2012

Bangkok, Thailand

Las Positas College

Associate of Science in Computer Science, Minor in Math

Aug 2018 – May 2022

Livermore, CA

San Jose State University

Bachelor of Science in Computer Engineering, Minor in Computer Science

Aug 2022 – May 2025

San Jose, CA

RELEVANT COURSEWORK

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

TECHNICAL SKILLS

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.
- Led 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 NASA MCCET and NICM CER/SER methodologies.
- Led mission scheduling and facilitated timely collaboration between cross-functional teams for simulation projects.
- Verified CDH system requirements, using engineering problem-solving to ensure it meets mission objectives.

Mountain Cascade, Inc

March 2020 - August 2023

IT technician

Livermore, CA

- Delivered comprehensive technical IT support for engineers, resolving complex hardware, software, and network issues
- 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 customer 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 daily 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 Nural Network model achieving 85% accuracy on test data.

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

2023

- NoteHub is 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.

ADDITIONAL EXPERIENCE

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 Satellite.

Tau Beta Pi Engineering Honor Society

January 2023 – Present

Active member

- Participating in activities support 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

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