

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

May 2010 – June 2012

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

Technical Skills

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

Tools & Frameworks: Git / GitHub, GDB (Debuggers), SPICE (LtSpice), Flask, Numpy, Pandas, Pytorch, AutoCAD, Adobe Creative Suit, Microsoft Office, VMware, Docker

Shell Scripting: BASH Script, Window Power Shell

Networking & Protocols: TCP/IP, DNS/DHCP, NAS, VPN Configuration

Hardware & Electrical: Schematics, testing devices (Oscilloscopes, Multimeters, Frequency generators), soldering

Systems & Software: Windows, Linux

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) |

Experience

NASA (NASA L'SPACE Proposal Writing Academy)

August 2024 - Present

Researcher

remote

- Collaborating with multi-disciplinary teams to research and develop the innovative solutions proposal to NASA's pain points.
- Apply trade Study TRL to identify the right choice of innovative solution.

NASA (NASA L'SPACE Mission Concept Academy)

April 2024 – August 2024

Program Analyst & Computer Hardware Engineer

remote

- Conducted cost estimation for simulated lunar missions, using advanced methodologies and tools such as NASA MCCET and NICM CERs/SERs.
- Managed mission schedules from prelaunch to closeout, collaborating with project managers, scientists, and engineers.
- Engineered the design of the Command and Data Handling (CDH) subsystem, contributing to mission critical components of the project.

Mountain Cascade, Inc

March 2020 - August 2023

IT technician & IT manager

Livermore, CA

- Offers customer service and satisfaction for engineers, project managers and field workers.
- Optimized Window Virtual Machine Servers, enabling seamless remote engineering work.
- Diagnosed and resolved complex hardware and software issues, with a specialization in Windows environments.
- Enforced security policies and systems on Windows servers to ensure data integrity and protection, including technology upgrades and server optimization, aligning with organizational objectives.
- Provided comprehensive IT support, including HCSS, Sage products, and Timberline Accounting.

Amber System Technology

April 2018 - March 2020

Frontend Software Engineer

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.
- Give technical customers support via Cisco VoIP, for efficient and effective problem resolution.

Volcano Splash Drinks (Small Private Family business)

August 2013 - December 2018

Barista and Operations Lead

Tracy, CA

- Optimized business layout and processes, significantly enhancing customer flow and operational efficiency
- implement solution operating procedures, ensuring consistent delivery of top-quality customer service

Projects

Neural Network Machine Learning

Python, Pytorch, Pandas, Numpy

2024

- Implement Neural Network that can predict the number from the user prompt.

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.

Encryption Decryption program

NASMx86

2021

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

Extracurricular

CUBE3 Satellite Club

Aug 2024 – Present

Controls (Programmer Active Member)

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

SJSU Competitive programing

Aug 2024 – Present

Regular Active member

- Regularly solve challenges on platforms like LeetCode 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.
- Relearn and enhance understanding of data structures and algorithms through hands-on practice and problem-solving.

SJSU machine learning

Aug 2023 – Present

Regular Active member

- 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

January 2023 – Present

Regular Active member

- Selected for membership in recognition of academic excellence and leadership potential in the field of engineering.
- 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

Aug 2022 – Present

Regular Active member

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

Regular Active member

- Participate in academic enrichment programs, workshops, and events aimed at supporting underrepresented students in engineering, mathematics, and science.
- Collaborate with fellow students in projects, study groups, and hands-on activities designed to enhance technical skills and knowledge in engineering disciplines.
- Engage in leadership and professional development opportunities provided by MESA, such as networking events, career panels, and mentorship programs.

Awards

Awards:

San Jose State University Fall 2022 Dean's List Awards Las Positas College Fall 2021 Dean's List Awards

Scholarship:

Las Positas College EOPS's Scholarship 2020-2022