NUTTHAWAT PANYANGNOI (U.S. Citizen) 🌐 lumiere-lab.com

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Career Objective

Versatile Computer Engineer with hands-on experience in Full-Stack development, Embedded software and IT infrastructure. Proven track record in frontend development, building real-world solutions in production environments. Proficient in Python, JavaScript, SQL, and React, with expertise in Linux-based systems. Eager to leverage technical skills to drive innovative solutions as a Full-Stack Engineer, AI engineer, Embedded software engineer.

EDUCATION

San Jose State University, San Jose, CA　　　　　　　　　　　　　　　　　　　**Dec 2025**
B.S. Computer Engineering, Minor: Computer Science　　　　　　　　　　　　　　　GPA: 3.327/4.0

Las Positas College, Livermore, CA　　　　　　　　　　　　　　　　　　　　　　**May 2022**
A.S. Computer Science, Minor: Math　　　　　　　　　　　　　　　　　　　　　　GPA: 3.4/4.0

Technical Skills

Programming: C/C++, Python, JavaScript, SQL, Verilog, HTML, CSS, mySQL, Bash, MongoDB, React, Docker
Deep Learning / ML: PyTorch, TensorFlow, NumPy, Scikit-learn, Jupyter, CUDA
Embedded Systems: Raspberry Pi CM4, TI MSP430, FPGA (Verilog/SystemVerilog), LTspice, Oscilloscope
Tools: Docker, VMware, Vivado, SolidWorks, Figma, REST API, Jetbrains products
Hardware: BIOS Flashing, RAID, VPN, NAS, Diagnosing hardware, Hardware Troubleshooting
Operating Systems: Linux, Windows, macOS

Work Experience

NASA Proposal Writing and Evaluation Experience　　　　　　　　　　**Aug 2024 – Dec 2024**
Computer Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Remote

- Conducted technical research on high-voltage battery tech for space missions, with laser charging integration.

- Pitched and co-authored an innovation proposal selected by NASA MSFC for further development.

- Collaborated with engineers to review innovative proposals and gained hands-on experience developing prototypes.

NASA Mission Concept Academy　　　　　　　　　　　　　　　　　　　**Jan 2024 – Aug 2024**
Program Analyst & Computer Engineer　　　　　　　　　　　　　　　　　　　　　　Remote

- Worked with engineers on a simulated NASA Discovery Mission to execute a lunar water sample collection operation.

- Managed project timeline forecasting for major designed milestones (MCR, SRR, MDR) using NASA tools.

- Conducted entire mission cost estimation, resource analysis, instruments cost using NICM CERs/SERs and MCCET.

Mountain Cascade, Inc.　　　　　　　　　　　　　　　　　　　　　　**Mar 2020 – Aug 2023**
IT Technician (Full-time)　　　　　　　　　　　　　　　　　　　　　　　　　Livermore, CA

- Provided comprehensive IT support, diagnosing hardware and software issues in Windows server environment.

- Performed hands-on BIOS flashing, RAID setup, VPN configuration, NAS setup, and server maintenance.

- Managed hardware lifecycle: break/fix, deployments, upgrades, and service requests.

Amber System Technology　　　　　　　　　　　　　　　　　　　　　　**Apr 2018 – Mar 2020**
Frontend Software Developer (Part-time)　　　　　　　　　　　　　　　　　　　Pleasanton, CA

- Developed and customized POS system UI to meet business clients' specific requirements.

- Led frontend development to ensuring align with customer requirements and their business goals.

- Built full-stack web applications leveraging modern technologies to address customer requirements.