NUTTHAWAT PANYANGNOI

[panyangnoi.nutthawat@gmail.com](mailto:panyangnoi.nutthawat@gmail.com) | [LinkedIn](https://www.linkedin.com/in/nathan-panyangnoi/) | [GitHub](https://github.com/kur0neko/)

**Career Objective**

Versatile Computer Engineer with hands-on experience in full-stack development 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.

**EDUCATION**

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| --- | --- |
| **San Jose State University** | **Dec 2025** |
| *B.S., Computer Engineering* | |
| * **GPA:** 3.327/4.0 | |
| **Las Positas College** | **May 2022** |
| *A.S., Computer Science* | |
| * **GPA:** 3.4/4.0 | |

**Technical Skills**

* **Programming**: C, C++, Python, JavaScript, SQL, Verilog, HTML, CSS, mySQL, PostgreSQL, MongoDB, React
* **Deep Learning / ML**: PyTorch, TensorFlow, NumPy, Scikit-learn, OpenCV, Jupyter, CUDA
* **Embedded Systems**: Raspberry Pi CM4, TI MSP430, FPGA (Verilog/SystemVerilog), LTspice, Oscilloscope
* **Tools**: Docker, VMware, Vivado, SolidWorks, Figma, Bash, Powershell, Zshell, 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*

* Collaborated with engineers on a simulated NASA Discovery Mission to execute a lunar water sample collection operation, enhancing mission readiness and operational efficiency
* 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 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, ensuring efficient operations and timely resolution of technical issues

**Amber System Technology Apr 2018 - Mar 2020**

*Frontend Software Developer Pleasanton, CA*

* Developed and customized POS system UI to meet business clients’ specific requirements.
* Led frontend development to align with customer requirements and business goals, improving project delivery and client engagement
* Built full-stack web applications leveraging modern technologies to address customer requirements.

**Projects**

|  |  |
| --- | --- |
| **FoodReal iOS Application (React Native, Tailwind, Expo, Firebase)** | **Present** |
| * Building mobile app to encourage home cooking and food sharing with social engagement. | |
| * Designed intuitive swipe-based interface with engaging UI. | |
| **Handheld Computing Device (C, C++, Linux, KiCad, LTspice, Raspberry Pi CM4)** | **Present** |
| * Engineered modular computing system using Raspberry Pi CM4 and ClockworkPi v3.14. | |
| * Built custom Linux OS including bootloader setup, device tree config, and optimization. | |
| **Note Hub Web Application (Python, Flask, SQLAlchemy, Django)** | **Apr 2023** |
| * Created Notion-inspired web app with Flask and SQLite for note management. | |
| * Implemented secure session-based user authentication. | |
| **Neural Network Classifier for Iris Dataset (PyTorch, NumPy, Pandas, Python)** | **May 2025** |

* Trained CNN on sign language dataset and deployed model to Raspberry Pi with webcam.
* Optimized inference with PyTorch quantization; evaluated latency and accuracy.

**Certifications**

* **NASA L’SPACE Mission Concept Academy**: Completed 3.5-month program simulating NASA Discovery mission design process.
* **NASA Proposal Writing Evaluation Experience**: Completed a 3.5-month research program; co-authored a proposal with NASA MSFC on high-voltage laser-chargeable battery innovation.
* **Google Foundations of Data Science**: Completed professional training in data science foundations and analysis tools.
* **Google Get Started with Python**: Completed Python programming course for data analysis and problem-solving.
* **LinkedIn: Computer Components and Peripherals for IT Technicians**: Completed training on hardware peripherals for IT technicians.