

## Career Objective

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I'm a motivated and technically versatile Computer Engineering with hands-on experience in full-stack development, embedded systems, AI/ML, and IT infrastructure. With over three years plus of professional experience in frontend development and IT specialist, where I've built real-world solutions and worked in production environments. I'm proficient in Python, C/C++, JavaScript, SQL, Bash, and React, and I'm comfortable developing in Linux-based systems. Additionally, I have working knowledge of Verilog and machine learning, including experience with frameworks like PyTorch and TensorFlow.

## EDUCATION

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**San Jose State University**, San Jose, CA  
*B.S. Computer Engineering*, Minor: Computer Science  
**Las Positas College**, Livermore, CA  
*A.S. Computer Science*, Minor: Math

**Dec 2025**  
GPA: 3.327/4.0  
**May 2022**  
GPA: 3.4/4.0

## Technical Skills

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**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

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### 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.

Projects

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<b>FoodReal iOS Application</b> (React Native, Tailwind, Expo, Firebase) <ul style="list-style-type: none"><li>• Building mobile app to encourage home cooking and food sharing with social engagement.</li><li>• Designed intuitive swipe-based interface with engaging UI.</li></ul>	<b>In Progress</b>
<b>Handheld Computing Device</b> (C, C++, Linux, KiCad, LTspice, Raspberry Pi CM4) <ul style="list-style-type: none"><li>• Engineered modular computing system using Raspberry Pi CM4 and ClockworkPi v3.14.</li><li>• Built custom Linux OS including bootloader setup, device tree config, and optimization.</li></ul>	<b>In Progress</b>
<b>Note Hub Web Application</b> (Python, Flask, SQLAlchemy, Django) <ul style="list-style-type: none"><li>• Created Notion-inspired web app with Flask and SQLite for note management.</li><li>• Implemented secure session-based user authentication.</li></ul>	<b>Apr 2023</b>
<b>Neural Network Classifier for Iris Dataset</b> (PyTorch, NumPy, Pandas, Python) <ul style="list-style-type: none"><li>• Trained CNN on sign language dataset and deployed model to Raspberry Pi with webcam.</li><li>• Optimized inference with PyTorch quantization; evaluated latency and accuracy.</li></ul>	<b>May 2025</b>

Certifications

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<b>NASA L'SPACE Mission Concept Academy</b> <ul style="list-style-type: none"><li>• Completed 3.5-month program simulating NASA Discovery mission design process.</li></ul>	<b>Aug 2024</b>
<b>NASA Proposal Writing Evaluation Experience</b> <ul style="list-style-type: none"><li>• Completed a 3.5-month research program; co-authored a proposal with NASA MSFC on high-voltage laser-chargeable battery innovation.</li></ul>	<b>Dec 2024</b>
<b>Google Foundations of Data Science</b> <ul style="list-style-type: none"><li>• Completed professional training in data science foundations and analysis tools.</li></ul>	<b>Jun 2025</b>
<b>Google Get Started with Python</b> <ul style="list-style-type: none"><li>• Completed Python programming course for data analysis and problem-solving.</li></ul>	<b>Jun 2025</b>
<b>LinkedIn: Computer Components and Peripherals for IT Technicians</b> <ul style="list-style-type: none"><li>• Completed training on hardware peripherals for IT technicians.</li></ul>	<b>Jun 2025</b>