

Jeffrey Winters

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OBJECTIVE

Experienced IT professional completing my undergraduate degree in May 2025 and seeking a systems administrator role within the HPC sector. I bring more than a year of experience working with HPC infrastructure and more than six years experience in information technology roles.

EDUCATION

UC MERCED

COMPUTER SCIENCE AND ENGINEERING, B.S.

Expected Spring 2025 | Merced, CA

- Competed at the SC24 IndySCC competition.
- Competed in the UC Merced Aqua Arcade Game Jam.
- Developed an automated camera system to record and upload footage of bee activity for research purposes.

FRESNO CITY COLLEGE

COMPUTER ENGINEERING, A.S.

May 2023 | Fresno, CA

- Served as President of the Science and Engineering Club.
- Received NSF Engineering Scholars Program Scholarship.
- Completed NASA's Community College Aerospace Scholars (NCAS) Program.

Relevant Coursework: Data Structures, Algorithms Analysis, Discrete Math, Software Engineering, Database Systems, Computer Networks, Computer Architecture, Intro to Python, Ethical Hacking, Full-Stack Web Development, Human-Computer Interaction

SKILLS

SOFTWARE

Languages: Bash, Python, C/C++, Go, HTML/CSS, LaTeX, SQL, Assembly, GDScript

Developer Tools: VS Code, JetBrains Suite, Android Studio

Technologies/Frameworks: Linux, Docker, Kubernetes, Proxmox, Ansible, Spack, Slurm, Jenkins, GitHub, TCP/IP, Active Directory

HARDWARE

Electronics: SMD/THT Soldering, Circuit Troubleshooting, Reverse Engineering, Hardware Hacking, JTAG Programming

Fabrication: Rapid Prototyping, FDM/SLA/SLS 3D Printing, CNC Programming, Machining

Design Software: KiCAD, Solidworks, OrcaSlicer

CERTIFICATIONS AND LICENSES

- CompTIA Network+
- CompTIA Security+
- CompTIA Linux+ (In Progress)
- FAA Part 107 Commercial Drone Pilot License
- FCC HAM Radio License - Technician Class

HOBBIES

- Photography and Cinematography
- Electronics Modding and Repair
- Motorcycles

WORK EXPERIENCE - PT. 1

HPC RESEARCH INTERN

PACIFIC NORTHWEST NATIONAL LAB

Summer 2025 | Richland, WA

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DRONE RESEARCH INTERN

UC MERCED

September 2024 - Present | Merced, CA

- Programmed automated flight plans for a wide variety of drones used in research studies.
- Created orthomosaic maps using remote sensing data.
- Developed a methodology for assessing the safe operation of research drones using the NASA Task Load Index (TLX)

REU INTERN - ANVIL HPC CLUSTER

PURDUE UNIVERSITY

May 2024 - Present | West Lafayette, IN

- Developed, built, and implemented a CI/CD system for researchers to utilize with the Anvil Cluster.
- Created an openSSH Terminal User Interface to simplify the process of configuring Spack module builds for Anvil users.
- Emphasized the incorporation of accessibility and usability in the system's design, ensuring that a diverse range of users could comfortably interface with the software.

STUDENT HPC SYSTEMS ADMINISTRATOR

UC MERCED

August 2023 - Present | Merced, CA

- Performed maintenance and installed upgrades on high performance computing clusters and distributed servers.
- Provided technical support to internal users and external customers for their research computing workflows.
- Assisted in the planning and implementation of CIRT policies and projects, including the development of a terminal based LLM chat-bot.

PERSONAL PROJECTS

SOFTWARE

- Built and implemented an enterprise-grade homelab network for hosting private cloud services and information systems security research.
- Developed and cloud hosted a personal portfolio website.
- Developed multiple video game proof of concepts in Godot, both for personal enjoyment and for Game Jam competitions.
- Developed a sensor data logging software and model rocket computer system stack.
- Wrote this resume in LaTeX.

MECHANICAL

- Built out a home research, fabrication, and prototyping lab.
- Constructed and modified multiple 3D printers to be utilized and operated via a web interface.
- Constructed and modified an off the shelf CNC router to use a hand router as the cutting tool.
- Developed, manufactured, and iterated combat robots for competitive tournaments.
- Designed and built a homemade Farnsworth-Hirsch fusion reactor.
- 3D printed and constructed an open-source clone of the Boston Dynamics Spot quadruped robot.
- Designed and fabricated a propane blacksmith's forge.
- Designed and fabricated a nano form factor long range FPV drone.

ELECTRONICS

- Built a functioning 8-bit breadboard computer from discrete components.
- Fabricated and assembled an open-source ergonomic ortholinear-split mechanical keyboard.
- Restored an Apple Macintosh Color Classic to full working condition.
- Restored a 1970s tape recorder similar to the model used on during the NASA Apollo 11 mission.

REFERENCES

ROBERT ROMERO

UC MERCED - SENIOR SYSTEM ADMINISTRATOR

RYAN ROOKS

FRESNO CITY COLLEGE - IT TECHNICIAN

VINSON LION

LION RAISINS - FARM MANAGER

TIM BENNETT

THE PRESORT - IT MANAGER

WORK EXPERIENCE - PT. 2

IT SUPPORT TECHNICIAN

FRESNO CITY COLLEGE

May 2022 - August 2023 | Fresno, CA

- Investigated and corrected problems with user workstations, network accounts, network equipment, and peripheral devices.
- Responded to support requests and tickets and documented all steps taken to resolve issues.
- Investigated potential network security vulnerabilities and made suggestions on how to patch them.

OVERNIGHT DISPATCHER

CONNER LOGISTICS

November 2020 - December 2021 | Fresno, CA

- Kept detailed track of all available driver personnel and all in-progress and completed freight lines.
- Directed investigations to verify and resolve customer complaints.
- Offered friendly and efficient service to all customers, handled challenging situations with ease.

MATH TUTOR

FRESNO CITY COLLEGE

July 2020 - December 2021 | Fresno, CA

- Provided students with additional math instruction in coordination with professors.
- Provided meaningful meaningful and individualized guidance to help foster better understanding.

STUDENT FRONT DESK IT TECHNICIAN

FRESNO CITY COLLEGE

August 2019 - April 2020 | Fresno, CA

- Investigated and corrected problems with wireless network access, software issues, and peripheral devices.
- Responded to support requests from end users and walked them through basic troubleshooting tasks.

IT/DATABASE MANAGER

LION RAISINS

Jan 2018 - Jan 2019 | Selma, CA

- Managed network and system performance, conducting troubleshooting, security patching and maintenance.
- Configured, customized, and repaired devices based on staff requests.
- Conferred with executives to advise and plan for short-term and long-term IT infrastructure upgrades.
- Reviewed and assessed network architecture implementation, testing, and deployment needs to identify project requirements and costs.

LEAD COMPUTER TECHNICIAN

PC STATION INC.

April 2017 - January 2018 | Fresno, CA

- Supervised end-user support efforts, designing policies to establish consistent service guidelines and reliable ticket resolution.
- Maintained accurate records of all support requests to ensure consistent ticket progress.