# Jeffrey Winters

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## Objective

Experienced IT professional completing my undergraduate degree in May 2025 and seeking a systems admininistrator 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

**University of California: Merced** — **Expected May 2025**
*Bachelor of Science in Computer Science and Engineering* — *Merced, CA*

- Competing 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** — **May 2023**
*Associate of Science in Computer Engineering* — *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
- Databases
- Computer Networks
- Computer Architecture
- Intro to Python
- Ethical Hacking
- Full-Stack Web Development
- Human-Computer Interaction

## Recent Experience

**REU Intern - ANVIL HPC Cluster** — **May 2024 – Present**
*Purdue University* — *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 Systems Administrator** — **August 2023 – Present**
*University of California: Merced* — *Merced, CA*

- Performed maintenance and installed upgrades on high performance computing clusters and distributed servers.
- Provided technical support to internal users an 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.

**IT Support Technician** — **May 2022 - August 2023**
*Fresno City College* — *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.

## Software Skills

**Languages**: Bash, Python, C/C++, Go, HTML/CSS, LaTeX, SQL, Assembly, GDScript
**Developer Tools**: VS Code, JetBrains, Android Studio
**Technologies/Frameworks**: Linux, Docker, Kubernetes, Ansible, Spack, Slurm, Jenkins, GitHub, Active Directory

## Hardware Skills

**Electronics**: SMD and THT Soldering, Circuit Troubleshooting, Reverse Engineering, JTAG Programming
**Fabrication**: Rapid Prototyping, FDM and SLA 3D Printing, CNC Programming
**Design Software**: KiCAD, Solidworks, OrcaSlicer

## Certifications and Licenses

**Certifications**: CompTIA Network+, CompTIA Security+
**Licenses**: FCC HAM Radio License - Technician Class