Colin Hobbs

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PROFESSIONAL SUMMARY

Clearance-eligible software engineer with a B.S. in Computer Science (GPA 3.99) and 6+ years of combined experience in full-stack development, systems integration, and IT infrastructure support. Skilled in C++, Java, Python, and multi-threaded application design. Strong background in TCP/IP networking, Linux debugging, and secure code delivery in Agile and DevSecOps environments. Eager to contribute to national security missions by building robust, mission-critical systems.

EDUCATION

B.S. Computer Science, Oregon State University, Corvallis, OR
Graduation: June 2025 | GPA: 3.99 | Dean's List (All Terms)

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Assembly, SQL
Systems: Linux (Ubuntu, CentOS), macOS, Windows
Networking: TCP/IP, HTTP/S, DNS, Sockets, VPN
Concepts: OOP, Multithreading, Systems Programming, Reverse Engineering
Tools: Git, GDB, Wireshark, Make, Bash, Docker, Jira
Security: Familiar with secure coding practices and Top Secret clearance environments
Other: PostgreSQL, REST APIs, Agile, DevSecOps

PROJECTS

MMA Prediction Engine
- Built a multi-threaded data ingestion pipeline using Python with PostgreSQL backend.
- Engineered REST APIs with Flask and automated CI/CD using Docker and GitHub Actions.
- Deployed classification models for predictive analytics (F1 score: 0.82).

C++ Threaded File Watcher
- Developed a C++ tool that monitored system directories using pthreads and Linux inotify.
- Optimized for concurrency to trigger responses on file system events in real-time.

EXPERIENCE

Undergraduate Learning Assistant Oregon State University – Corvallis, OR | Oct 2024 – Jun 2025
- Delivered hands-on instruction in C++ and Java with emphasis on multi-threaded programming, memory management, and object-oriented design.
- Led lab sessions covering TCP/IP simulations, client-server architecture, and Git/GitHub-based version control workflows.
- Supported 100+ students across multiple sections, increasing course project completion rates by 15%.

IT Technician Umpqua Community College – Roseburg, OR | Oct 2023 – Dec 2023
- Provisioned and maintained Linux-based workstations (Ubuntu/CentOS) for faculty and staff.
- Diagnosed and resolved networking issues, including IP conflicts, DNS errors, and VPN failures.

- Developed Bash scripts to automate backup routines and log parsing, improving system uptime by 20%.

Global Service Desk Analyst Stanley Black & Decker | Aug 2018 – Oct 2019

- Provided Tier 2 support to a globally distributed enterprise team for 10,000+ users.
- Used Linux shell tools to assist developers in accessing secure internal APIs and performing real-time log analysis.
- Configured remote desktop environments, coordinated with infrastructure teams, and improved average response time by 25%.

Fulfillment Analyst Tangoe | Jul 2016 – Jul 2018

- Wrote and optimized SQL queries for large datasets across internal logistics systems.
- Partnered with backend developers to increase reporting performance and reduce DB latency by 35%.
- Created data integrity tools and documentation that streamlined reconciliation efforts across teams.

IT Support Specialist Foxconn | Aug 2010 – Jun 2016

- Monitored and maintained critical infrastructure across production environments supporting 24/7 operations.
- Coordinated with global engineering teams to resolve system-wide outages, reducing downtime incidents by 40%.
- Performed device-level testing, configured network switches, and conducted cable diagnostics to ensure stable deployments.