Calvin VanderVeer

Education

Florida State University Tallahassee, FL

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.657 *May 2025*

- **Relevant Coursework**: Networking Fundamentals, Database Management, Data Structures, and Algorithms
- **Honors**: Dean's List (Fall 2023, Spring 2024, Fall 2024)
- **Extracurricular**: Member, Association for Computing Machinery (ACM) at Florida State University

Technical Skills

Languages: Python, Java, C/C++, T-SQL, HTML/CSS
Developer Tools: GCC, GDB, Valgrind, Clion, GitHub, Linux shell scripting, Unix system utilities
Frameworks & Technologies: Docker, Kubernetes, MATLAB
Additional Skills: Process improvement, technology reporting, data analysis

Experience

Information Technology Intern May 2024 – Aug. 2024

Kingsway Community *Schenectady, NY*

- Monitored and troubleshot network infrastructure daily, identifying and resolving anomalies to ensure optimal system performance and minimal operational disruptions.
- Configured, integrated, and deployed new wireless access points, improving network coverage and connectivity throughout the campus.
- Upgraded and optimized firmware for network switches, enhancing security and network efficiency.
- Utilized network diagnostic tools (e.g., tcpdump, ping) to analyze and debug connectivity issues.

Data Analyst Intern May 2022 – Aug. 2022, May 2023 – Aug. 2023

Araya *Latham, NY*

- Designed and automated file transfer systems utilizing JSON, SQL, and PowerShell, reducing manual processing time and increasing operational efficiency.
- Developed and deployed automation scripts for scheduled email dispatches, ensuring timely delivery of critical pricing updates to executives.
- Engineered an automated file management system, currently handling 2,000+ redundant files daily, improving storage efficiency and compliance.
- Collaborated cross-functionally to gather and translate business requirements into scalable technical solutions, ensuring alignment with organizational objectives.
- Presented technical insights and solutions through monthly briefings to executives and peers, demonstrating data-driven decision-making.

Projects

Climate Change Impact Analyzer | Python Feb. 2025 - Present

- Developed a modular Python application to analyze climate change impacts using time-series data, machine learning, and geolocation APIs.
- Built custom models for temperature anomaly detection, prediction, and clustering using scikit-learn and pandas.
- Engineered a command-line interface (CLI) and visualized results using Matplotlib and Seaborn for user-friendly interaction.
- Integrated OpenWeatherMap and GeoPy APIs to enhance analysis with real-time and geospatial climate data

Web Server Deployment & Management | *Linux, Nginx, Networking, Python* Jan. 2025 - Present

- Built and secured a self-hosted Ubuntu server to run a Flask application over HTTPS using a custom WSGI server (unicorn.py) and Nginx as a reverse proxy.
- Implemented comprehensive hardening measures, including UFW, Fail2Ban, SSH lockdowns, and kernel-level protections (sysctl.conf).
- Managed server provisioning and monitoring, ensuring uptime, security compliance, and resource efficiency.

Volunteer Services

- Led a high-impact fundraising team, raising $33,725.11 in seven weeks, including $24,198.11 personally, in support of the Leukemia & Lymphoma Society's blood cancer research.