Kaleb Woldetsadik

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EDUCATION

Southern Illinois University Edwardsville (SIUE), Edwardsville, IL Expected Graduation: May 2026
Bachelor of Science in Computer Science, Minor in Cybersecurity
Honors & Awards: Maryland Heights Chamber of Commerce Student of the Month for Engineering; First Tech Challenge, Innovate Award Winner; Johnetta Haley Scholarship, SIUE

Leadership and Campus Involvement:

- **Team Lead in Autonomous Robotics Club:** Led the design and programming of autonomous robotic platforms, organized workshops, and prepared for competitions to enhance technical skills and teamwork

SKILLS

Technical Skills: C++, C#, C, Python, Java ,JavaScript, HTML, CSS, SQL, PHP, Flask, Git, Linux, Unity
Development & Repair: Arduino, computer and phone repair, troubleshooting hardware and software issues
Electrical Systems: Skilled in diagnosing and repairing electrical components in cars and machinery

EXPERIENCE

Stifel Financial Corp, St. Louis, MO May 2025- Present
Technology Product Development

- Automated AWS workflows using Lambda, Glue, CloudWatch, and EventBridge for data processing.
- Wrote Terraform scripts to deploy monitoring infrastructure and standardize cloud resource provisioning.
- Refactored CRMA Python code; added JSON logging for improved CloudWatch observability.
- Used Azure DevOps for branching, pull requests, and team-based Agile collaboration.
- Resolved Jira tickets related to logging, permissions, job delays, and storage policies.

Freelance Electronics & Systems Repair Technician, St. Louis, MO September 2022- Present

- Diagnosed and repaired over 150+ electronic systems across multiple industries, including consumer electronics, automotive, and computing devices, generating $25,000+ in revenue. Expertise in hardware diagnostics, software diagnostics, circuit analysis, and system integration.
- Performed advanced hardware repairs and modifications, including motherboard soldering, battery replacements, screen and port repairs, fuse and circuit board replacements, and CPU and storage upgrades to optimize system performance and extend product life cycles
- Enhanced automotive electronic systems by integrating modern sensors, backup cameras, and diagnostics into newer and older vehicles, troubleshooting alternators, replacing tire pressure sensors, and optimizing electrical wiring to ensure seamless hardware-software integration.

PROJECTS

Weather Forecast Application | *Python, Flask, HTML, Weather API* June 2024

- Built a full-stack weather forecast application using Python, Flask, and HTML, leveraging modular design and robust API integration for dynamic user interfaces
- Optimized performance and scalability with RESTful architecture, responsive design, and data-driven techniques for cross-device compatibility.

MIPS Simulator March 2023

- Led the development of an object-oriented C++ program to interpret binary files and generate cycle-by-cycle output, integrating pipelining techniques for optimized instruction execution
- Implemented core functionalities including logical shifts, loops, and arithmetic operations, demonstrating proficiency in low-level programming and algorithmic problem-solving

Autonomous Quadcopter Drone January 2023

- Designed and implemented modular drone software for autonomous navigation, integrating GPS-based path planning and DJI Naza SDK to enable precise delivery and return operations
- Developed real-time telemetry and collision avoidance systems using MAVLink protocol, leveraging sensor data, and programmed the solution in Java and C for robust functionality.