

# Mason Bair

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## Education

**Kent State University**, Kent, Ohio – Bachelor of Science – Major: *Computer Science* – GPA: 3.97 – May 2026

**Tartu University**, Tartu, Estonia – Major: *Computer Science – Study abroad*, August 2024-June 2025

## Work Experience

### Assistant System Administrator

August 2025 – Current

*Kent State, Kent, Ohio*

- Configured and deployed high-performance Dell R760 GPU servers for faculty research, integrating Ubuntu Server, Lambda AI stack, and SSSD for centralized authentication and directory services
- Authored and published a comprehensive multi-OS GlobalProtect VPN installation guide for Unix, Windows, and macOS, now hosted on the official CS department website to support students and faculty
- Automated enterprise system administration workflows using Ansible to deploy Tenable security agents, configure unattended updates with Postfix email notifications, and maintain compliance across 20+ research servers

### DevSecOps/Software Engineering Intern

May 2025 – August 2025

*Nationwide, Columbus, Ohio*

- Developed a Python application, integrating business-defined criticality and SonarQube severity data to reprioritize issues across 1000+ internal apps, enhancing triage accuracy and reducing downtime risk for Nationwide's development teams
- Designed and migrated GitHub Actions workflows to streamline Continuous Integration (CI) pipelines, enabling automated image builds and significantly reducing deployment time for development teams
- Implemented Sonar Sweep, a tool to clean outdated code from SonarQube, reducing tracked lines and preventing tiered pricing increases, projected to save Nationwide over \$10K annually

### Undergraduate Researcher – ImageJ Web Application Development

September 2023 – May 2025

*Kent State University, Kent, Ohio*

- Spearheaded the development and deployment of a web-based ImageJ application for biology students to analyze cell data, integrating Angular, Python, and TypeScript for enhanced functionality
- Containerized and deployed the application using Docker, Docker Compose, and Conda environments on Ubuntu
- Configured Apache and WSGI to host the application and facilitate communication with a Ray backend for distributed processing.
- Managed GitHub repositories and Docker image registries to streamline version control and deployment

## Skills

- Programming languages: C++, Python, Java, Typescript, PHP, C#, .net, HTML, CSS, R
- Worked with: Docker, GitHub Actions, Harness, AWS(ECS, ECR, S3, Bedrock, IAM), MCPs, AI Agents, Strands Agents, AI Context, Flask, Angular, GitHub, Azure, Kubernetes, Ray Clusters
- Intermediate Linux System Administration: Ansible, Networking, TCP, IP, Apache, DNS, SSSD, Autofs, OS Installation, LDAP, Email Servers

## Achievements

### HacKSU President

May 2025 – Present

- Kent State's largest CS club: lead a team of 6 to organize weekly meetings (10–30 attendees), manage the Kent Hack Enough hackathon, and coordinate industry speaker events to enhance student engagement
- Spearheaded the creation of a centralized STEM Discord server for Kent students, fostering cross-department collaboration, resource sharing, and a stronger tech community across campus

**NexHacks: 1st place - The Token Company, 2nd place - DevSwarm:** Created an Automated Triaging Task solution for large scale teams. Built via Svelte, Python, and n8n workflows, utilizing triaging, coding, and confidence agents.

**Hack Dearborn 4: 1st Place overall:** Built a multi-node mesh Bluetooth communication service that allowed for users to send messages back and forth on a decentralized network. Built the UI, along with the API for communicating with the mesh network.

**Hack Ohi/O:** Built an adaptive AI learning platform that changes based on the user. Works by having 50+ widgets and tools an LLM can use to build each lesson, and creating an Adaptive Composition Engine to personalize the user experience.

**Choose Ohio First - Computer Science Scholarship**, Kent State University, August 2023-Present

**Eagle Scout**, Scouts BSA, St. Francis Xavier school, August 2016-July 2022.