

**Evan Brooks**  
Graduate Student  
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## EDUCATION

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**Ohio University Russ College of Engineering | Athens, OH**

M.S. Computer Science  
*In Progress*

August 2024 – December 2026  
GPA: 4.0 / 4.0

**Ohio University Russ College of Engineering | Athens, OH**

B.S. Computer Science  
*Magna Cum Laude*

August 2020 - May 2024  
GPA: 3.775 / 4.0

## RESEARCH EXPERIENCE

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**Ohio University, Dr. Shawn Ostermann & Ilya Kogan | Athens, OH**

May 2024 – Present

**Graduate Research**

Leading integration of Backstage (internal developer portal) into the university's cloud-native Kubernetes platform, focusing on scalability, reliability, and developer workflow improvements.:

- Implemented Azure AD SSO, Microsoft Graph API user provisioning, and secure authentication flows.
- Integrated multiple platform tools: Jira, Kubernetes metrics/monitoring, TechDocs, GitHub org imports, and catalog templates.
- Working in a Linux-based cloud environment using containers, cloud APIs, and infrastructure automation.
- Upcoming work includes enabling GitHub-based student login and expanding platform access.

**Ohio University, Dr. Shawn Ostermann | Athens, OH**

April 2023 – May 2024

**Undergraduate/Graduate Research**

- Evaluated and optimized performance of ION (delay tolerant network) under diverse system and networking conditions.
- Built and managed QEMU virtual machine environments to conduct controlled systems tests.
- Began building a cloud-based automated testing framework using cloud platforms and config-management tooling.
- Strengthened understanding of Linux internals, networking, virtualization, and high-availability system behavior.

## WORK EXPERIENCE

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**Ohio University IT | Athens, OH**

May 2021 - June 2024

**Student Software Engineer**

- Collaborated with cross-functional teams to deliver full-stack applications supporting university operations.
- Modernized and refactored legacy applications into supported languages and platforms.
- Coordinated work through GitHub, code reviews, and iterative development.

**Western Brown Local Schools | Mt. Orab, OH**

June 2019 – January 2021

**Technology Department Intern**

- Supported districtwide technology infrastructure: device deployment, diagnostics, repairs, and classroom hardware installations.
- Maintained networking equipment (switches, UPS systems) and contributed to operational uptime across multiple buildings.
- Strengthened hands-on hardware, troubleshooting, and team-oriented communication skills.

## SKILLS

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**Programming:** C, C++, Python, YAML, JavaScript, TypeScript, HTML/CSS; C#, SQL, OCaml**DevOps / Cloud:** Kubernetes, Docker, containerization, Backstage, Azure AD/SSO, cloud platforms (Azure/GCP/AWS), GitHub, configuration management**Software Tools:** QEMU, Proxmox, GNS3, Git, Make, Doxygen, unit testing, Unity2D**Technical:** Verilog, electrical troubleshooting and soldering, CNC programming/operation, Autodesk Inventor, AutoCAD, additive manufacturing