

Evan Brooks
Graduate Student in Computer Science
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EDUCATION

Ohio University Russ College of Engineering | Athens, OH

B.S. Computer Science
Magna Cum Laude

August 2020 - May 2024
GPA: 3.775 / 4.0

TEACHING EXPERIENCE

Ohio University | Athens, OH

Instructor of Record — CS1400: Fundamentals of Computing

August 2025 – December 2025

- Designed and delivered lectures, programming assignments, quizzes, and exams for ~25 students; managed all grading and course materials.
- Taught foundational computing concepts including computational thinking, algorithms, Python programming, and contemporary issues in computer science.

RESEARCH EXPERIENCE

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

May 2024 – Present

Graduate Research

- Leading integration of Backstage as an internal developer platform (IDP) within a cloud-native Kubernetes environment, connecting Jira, TechDocs, catalog templates, Kubernetes monitoring, and automated GitHub imports.
- Configured Azure SSO and Microsoft Graph for authentication and automatic user provisioning; next steps include enabling student GitHub login.

Ohio University, Dr. Shawn Ostermann | Athens, OH

April 2023 – May 2024

Undergraduate/Graduate Research

- Contributed to performance analysis and optimization of ION, a delay-tolerant networking (DTN) system.
- Measured performance of ION under varying circumstances
- Created virtual machines for performance testing using QEMU
- Began creating a cloud testing framework using cloud platforms and configuration management software

WORK EXPERIENCE

Ohio University IT | Athens, OH

May 2021 - June 2024

Student Software Engineering

- Collaborated on software engineering projects supporting university systems and stakeholders.
- Developed front-end and back-end applications for the university
- Translated out-of-date applications to modern, supported languages

Western Brown Local Schools | Mt. Orab, OH

June 2019 – January 2021

Technology Department Intern

- Supported district-wide deployment and maintenance of 2000+ Chromebooks and classroom technology.
- Installed and maintained CCTV systems, network infrastructure, and power systems.

SKILLS

Programming: C, C++, Python, YAML, JavaScript, TypeScript, HTML/CSS; C#, SQL, OCaml

DevOps / Cloud: Kubernetes, Backstage, Azure AD/SSO, cloud platforms (Azure/GCP/AWS), GitHub, containerization, configuration management

Software Tools: Git, Make, Doxygen, static analysis, profiling, unit testing, Unity2D

Systems, Virtualization & Networking: QEMU, Proxmox, GNS3, virtual machines, networking fundamentals

Technical: Verilog, electrical troubleshooting and soldering, CNC programming/operation, Autodesk Inventor, AutoCAD, additive manufacturing