

# Kylie Roenigk

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## EDUCATION

**Ohio University, Russ College of Engineering and Technology** — Athens, Ohio

*Bachelor of Science in Computer Science and Certification in Project Management*

Expected Graduation: May 2027

Cumulative GPA: 4.0

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## EXPERIENCE

**Ohio University (OIT), Student Software Engineering Intern**

April 2024 – Present

*Athens, Ohio*

- Built and maintained full-stack web applications using TypeScript, contributing to scalable and responsive system design.
- Designed and implemented backend features using Hapi, Joi, and Knex, with structured SQL-based solutions for robust data handling.
- Strengthened application reliability through unit testing, and optimized backend routing for improved performance and maintainability.

**Ohio University (OIT), Software Engineering Intern**

April 2025 – August 2025

*Athens, Ohio*

- Upgraded and maintained full-stack university web applications, resolving both frontend and backend issues; all systems are actively deployed and used by Ohio University.
- Leveraged Scaffold, Kubernetes, and Docker to build, test, and deploy applications to the university's internal cluster; automated workflows using GitHub Actions and CI/CD pipelines.
- Designed, developed, and deployed a new web application with user-customizable styling, published for both internal and external use by Ohio University.
- Collaborated with the SSEP team via JIRA and Microsoft Teams; restored a key Docker-based Node.js training project after a year of inactivity and updated onboarding materials for future cohorts.

**Woodridge Local Schools, Technology Intern**

May 2021 – June 2023

*Peninsula, Ohio*

- Diagnosed and repaired over 100 Chromebooks, replacing screens, motherboards, and other components.
- Provided technical support across multiple school buildings for software and network issues.
- Contributed to large-scale district-wide tech deployments, improving IT response times.

**Ohio University, Computer Science Ambassador**

March 2025 – Present

*Athens, Ohio*

- Represented Russ College of Engineering and Technology by leading tours, promoting programs to prospective students, and engaging with alumni and donors at campus events.
- Strengthened public speaking and networking skills through outreach, recruitment, and collaboration with university leadership.

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## Projects

**Virtual Reality Game, Lead Developer**

January 2025 – May 2025

*Athens, Ohio*

- Led development of *Alchemy Artisans*, a Unity 3D VR game for Oculus featuring immersive object interaction and a handwritten crafting system.
- Implemented a tag-based item recognition system, automatic item respawns, and a player-driven crafting economy, enabling users to fulfill customer requests and earn in-game currency for shop purchases.
- Coordinated a team of four throughout a semester-long project, delivering a fully integrated and showcased VR experience.

**Workload Estimator for Ohio University, Lead Developer**

April 2025 – August 2025

*Athens, Ohio*

- Developed a responsive Custom Workload Estimator using TypeScript and Vite, allowing users to input tasks, customize categories, and calculate time commitments in real-time.
- Deployed the app on GitHub Pages with a fast, single-page architecture optimized for usability and cross-device access.

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## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, JavaScript, Python, TypeScript, C#

**Web Development:** HTML/CSS, Angular, Node.js, SQL/SQLite, RESTful APIs, Web Application Development

**Tools & Frameworks:** Git, VS Code, JIRA, NPM, Hapi, Joi, Knex, GitHub Workflow, Docker, Scaffold, Vite, Unit Testing with Jest/Node.js

**Software Engineering:** Agile Development, end-to-end Troubleshooting, Software Upgrades, Database Design, CI/DC Pipeline

**Professional Skills:** Project Management, Technical Communication, Team Collaboration, Task Delegation, Workflow Automation

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## HONORS AND AWARDS

- Arnold Engineering Scholarship** (2023-2025)
- Valedictorian**, Class of 2023 — Cuyahoga Falls, Ohio

