

# Ethan Nuessle

(410)-758-7693 | [ethan.nuessle@gmail.com](mailto:ethan.nuessle@gmail.com) | [linkedin.com/in/ethan-nuessle/](https://linkedin.com/in/ethan-nuessle/)  
[github.com/enuessle](https://github.com/enuessle) | [enuessle.github.io](https://enuessle.github.io)

## EDUCATION

### Rensselaer Polytechnic Institute

*B.S Computer Science and Mathematics* - GPA: 3.86

- Dean's Honor List

Troy, NY

Aug. 2021 – May 2025

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Javascript, Java, MATLAB, HTML/CSS, Typescript

**Frameworks:** React, Node.js, JUnit, Vite

**Developer Tools:** Linux, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** OpenGL, SDL2, ShareDB

**Other Skills:** Agile Methodology, Scrum, Debugging, Project Management

## PROJECTS

- **VZCode** | *Javascript, React, ShareDB, NodeJS, Vite* Jan. 2024 – Present
  - Contributed to a full-stack browser-based code editor, implementing **real-time collaborative code editing** functionality.
  - Developed features to enhance user experience, including front and back-end support for **directories** for improved organization.
- **OSUExchange** | *Python, Requests, API, Git* May 2023 – Aug. 2023
  - Created a Python wrapper for the osu! API to streamline data retrieval and manipulation.
  - Collaborated within a **Scrum** framework to deliver a user-friendly tool, demonstrating **agile development** skills.
  - Published the wrapper on **pip**, contributing to the **open-source community** and showcasing **project management** abilities.
- **Simple Chip8** | *C/C++, OpenGL, SDL2, Make* Dec. 2023
  - Developed a fully functional interpreter for the CHIP-8 low-level language, demonstrating strong **problem-solving** and **algorithmic** skills.
  - Utilized **object-oriented design** principles for maintainability and scalability, showcasing **software engineering** proficiency.
  - Ensured **cross-platform compatibility**, enhancing **technical versatility** and **adaptability**.

## EXPERIENCE

### Algorithms Class Mentor

*Rensselaer Polytechnic Institute*

Jan. 2023 – Present

Troy, NY

- Provide personalized guidance and mentorship to students in complex subjects such as **Algorithms**, **Graph Theory**, and **Dynamic Programming**, ensuring their comprehension and mastery of key concepts.
- Examine and evaluate students' homework assignments, offering constructive feedback and assisting in **debugging** to enhance their learning outcomes.

### Summer Technologies Intern

*The Gunston School*

May 2021 – Aug. 2021

Centreville, MD

- Led the deployment and configuration of a comprehensive suite of new MacBooks for incoming faculty members, streamlining their onboarding process and enabling efficient access to essential tools and resources.
- Delivered **proactive** IT support and troubleshooting assistance to faculty members, resolving technical issues promptly and ensuring uninterrupted workflow during upcoming academic periods.
- Collaborated with the IT team to design and implement essential online infrastructure solutions, laying the foundation for seamless digital learning experiences for students and faculty in the upcoming academic year.