

Ethan Nuessle

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EDUCATION

Rensselaer Polytechnic Institute

Troy, NY

B.S Computer Science and Mathematics - GPA: 3.88

Aug. 2021 – May 2025

- Dean's Honor List - *Fall 2021 - Spring 2024*
- Letter of Recognition - *Spring 2024*

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, Unity

Libraries: OpenGL, SDL2, ShareDB

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

WORK EXPERIENCE

Algorithms Class Mentor

Jan. 2023 – Present

Rensselaer Polytechnic Institute

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

May 2021 – Aug. 2021

The Gunston School

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.

PROJECTS

• VZCode | *React, JavaScript, TypeScript, ShareDB, NodeJS, Vite*

- A real-time browser-based code editor, used as part of the VizHub data visualization platform. Used as part of Worcester Polytechnic Institute data visualization classes. Includes multiple widgets and GPT-4 AI autocomplete.
- Full-stack contributions implementing full support for directories, including user interface through React, and backend support with ShareDB.
- Refactored several core features such as filename authentication, keybinds, and File I/O.

• OSUEXchange | *Python, Requests, API, Pip*

- A Python wrapper for the osu! API designed to simply and efficiently provide streamlined access to core functions of the API for developers.
- Collaborated in a small team using a Scrum framework to deliver a user-friendly tool, with fast-paced updates and development.
- Fully open sourced, and published on Pip.

• Visual Arithmetech | *WebGL, C#, Unity*

- Winner of the HackRPI 24 hour hackathon education category and best domain category.
- An education tool to help teach basic arithmetic in a visual and hands on way, designed to solve problems of education in an increasingly virtual world.