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EDUCATION

- **Purdue University** West Lafayette, IN
Pursuing Bachelor of Science in Computer Science Aug. 2023 - Present
- **The Lawrenceville School** Lawrenceville, NJ
High School Diploma Sept. 2019 - May 2023

EXPERIENCE

- **The Lawrenceville School** Lawrenceville, NJ
Developer, Researcher, and Tutor Dec. 2021 - May 2023
 - **Sentinel:** The Lawrenceville School's internal extensible utility. Developed a full-stack framework and API for students to build web-based simulations using Node.js and Websockets.
 - **Stroud Water Research Center:** Created models to predict the behavior of endangered rivers in Lawrence Township and inform land management decisions. Generated observations matrices and predictive regressions with Numpy and visualizations with Matplotlib.
 - **The Lawrence:** Lawrenceville's student-run publication, the second oldest weekly high school publication in the US. Built a full-stack website, complete with articles, issues, author pages, search functionality, editor login, an article editor, and an author manager with Ruby on Rails.
 - **MA555 Assistant:** Served as an assistant in MA555: Honors Computer Programming. Guided students through learning the Wolfram Language, Mathematica, and foundations of technical computing. Designed and presented multiple demonstrations and lessons.
- **MEGA League** Princeton, NJ
Lead Web Developer and Event Organizer Nov. 2021 - April 2022
 - **Lead Web Developer:** Lead a scrum team to develop the original website for MEGA, featuring hackathon information and a sign-up portal.
 - **Event Organizer:** Organized MEGA's inaugural hackathon in April 2022, attended by hundreds of students virtually and in-person from over 20 schools around the world. Communicated and facilitated partnerships with over 30 schools and NGOs to bring speakers, prizes, and other opportunities to participants.
- **CodeltForward** Lawrence, NJ
Teacher Nov. 2021 - Mar. 2022
 - Taught internet literacy and basic web development to elementary and middle-school students from under-resourced schools.
 - Designed and executed weekly lessons that taught participating students valuable skills in fun, engaging ways.
 - Helped students publish self-built personal webpages to private sites to show their family and friends.

PROJECTS

- **Interactive Simulation Framework:** Node.js API and frontend/backend kit for creating interactive JS simulations.
- **Hexdump Utility:** Command-line hexdump featuring colored output, buffering, and side-by-side text written in C.
- **Personal Website:** Full-stack Flask/PostgreSQL app where I edit and display my projects, writing, and info.
- **Physics Simulations:** Orbital and Optical JavaScript simulations built on my kinematics and 2D raytracing engines.
- **Publication Website:** Full-stack Rails/PostgreSQL app with features for uploading, editing, and viewing articles.
- **Water Quality Modeling Tool:** Python program to generate predications and visualizations from CSV river data.
- **Tutor Matching System:** GSuite-integrated website to match students with tutors at Lawrenceville.

SKILLS

Languages: Python, C, Wolfram, Ruby, JavaScript

Technologies: AWS, React, Rails, Flask