

Ethan Perry

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EDUCATION

Wheaton College

Norton, MA

Bachelor of Arts in Computer Science, GPA 3.97/4

Aug. 2021 - May 2025

Bachelor of Arts in Mathematics, GPA 3.96/4

Aug. 2021 - May 2025

Relevant Courses: *Web Development, Data Structures, Algorithms, Object Oriented Programming, Machine Learning*

TECHNICAL SKILLS

Languages: C++, Javascript, C, Python, R, PHP, SQL, HTML, CSS, MIPS Assembly

Technologies: Node.js, Express, Typescript, MongoDB, RESTful API, MySQL, jQuery, Bootstrap

Tools: Git, GitHub, Bash, Linux, VS Code, CLion, RStudio, PyCharm, Excel, Mathematica

PROJECTS

Student Marketplace App | *Node.js, Express, MongoDB, Typescript, RESTful API*

- Engineered application back-end infrastructure using Node.js and Express, building robust APIs to facilitate seamless communication between buyers and sellers to ensure smooth platform functionality
- Integrated MongoDB for database management, implementing secure data handling practices with Json Web Tokens to maintain integrity and support efficient storage and retrieval of user and product information
- Strategically designed application wireframes and tech stack while prioritizing scalability and user experience
- Collaborated using Agile methodologies, conducting bi-weekly sprint cycles, regular code reviews with Git version control, and progress tracking meetings to ensure timely delivery of tangible project milestones

Terrain Reconstruction Visualizer | *Javascript, HTML/CSS, jQuery, Plotly.js, C++*

- Delivered an innovative web-based site for Digital Elevation Model (DEM) visualization
- Implemented dynamic user interaction features for smooth user experience with Javascript and Bootstrap
- Integrated Inverse Distance Weighting (IDW) as a means of interpolating incomplete or sparse input data files
- Extracted and processed additional sample elevation data using qGIS software for enhanced modeling capabilities

Full-Stack Photobook Emulator | *Javascript, PHP, MySQL, Bootstrap, HTML/CSS*

- Collaborated with a peer programmer to design and deploy a simulated photo album creation webpage, utilizing HTML5, JavaScript, and PHP to deliver a seamless user experience, demonstrating proficiency in full-stack development
- Developed a full-stack system to save and restore user progress data, leveraging relational databases (SQL) and JavaScript cookies, showcasing expertise in data persistence and efficient data management
- Engineered optimized database architecture to enable fast data retrieval, reducing buffering times and improving user experience, aligning with the need for efficient software design and development

EXPERIENCE

Lead Geospatial Interpolation Researcher

May. 2024 – Aug. 2024

Wheaton College

Norton, MA

- Guided academic research pathway by reviewing contemporary academic articles to clearly define my research project niche
- Explored the application of several machine learning techniques, such as Random Forest, XGBoosting, and Neural Networks, to develop a terrain reconstruction algorithm
- Gained valuable academic experience which translated into applicable programming skills to extend GIS research
- Collaborated with my research advisor to create a robust and productive academic environment to achieve collective goals

Computer Science and Mathematics Peer Tutor

Jan. 2022 – Present

Wheaton College

Norton, MA

- Providing customized instruction to students in eight different math and computer science courses
- Collaborate with fellow tutors to organize groups of students into dynamic study sessions
- Manage an active log summarizing and reflecting on each tutoring session to improve communicative ability
- Actively participating in monthly workshops to incorporate valuable performance feedback in topics like active listening and effective communication