

# Evans M. Wood

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## EDUCATION

### Worcester Polytechnic Institute

Bachelor of Science in Computer Science & Data Science, GPA: 3.85

Worcester, MA

Aug. 2023 – Present

## EXPERIENCE

### Worcester Polytechnic Institute: Pre-Collegiate Outreach Program

Summer 2024 & 2025

Residential Program Advisor – Frontiers

Worcester, MA

- Ran two in-person, two-week STEM programs for high school students, guiding workshops and activities.

### E.H. Perkins

Website Designer & Programmer

Dec. 2020 – Jan. 2021

Hudson, MA

- Redesigned corporate website using HTML, CSS, and JavaScript with a modern layout and color scheme.

## PROJECTS

### ShopComp.online

- | React, Node.js, AWS Lambda, Aurora RDS, Gemini API
- Worked with a team of four to develop a full-stack web app with React front-end, Node.js REST API, and Aurora RDS database for shopper, receipt, and store management.
  - Serverless backend with AWS Lambda & API Gateway, including AI-powered receipt image analysis.
  - Supported key workflows: shopper accounts, receipt & shopping list management, and store/chain administration.
  - Optimized SQL schemas and queries for performance and reliability.
  - Utilized microservices to handle Shopper Logins, shopping lists, dynamic fuzzy searching and other dynamic API requests.

### Python-to-x86 Compiler

- | Python, x86 Assembly
- Built Python compiler producing x86 assembly, implementing lexical analysis, parsing, and code generation.
  - Used LALR parser to generate ASTs, optimized intermediate representation, and performed dataflow analysis.
  - Enabled declarative, procedural and functional features including garbage collection and lexically scoped lambdas.

### Spotify Song Requester

- | Next.js, Spotify API
- Developed a Next.js app integrating the Spotify API, allowing users to search for songs and submit requests to a centralized playlist.
  - Enabled DJs to screen requests in Rekordbox and maintain a record for future event playlist creation.

### Mount Washington Summit Virtual Tour

Aug. 2025 – Oct. 2025

- Worked with a team of four to develop an interactive, self-paced virtual tour in collaboration with the Mount Washington Observatory and six sponsors.

**Languages:** C, Python, Golang, Rust, Java, JavaScript/TypeScript, SQL

**Frameworks/Libraries:** React, Next.js, Node.js, NumPy, scikit-learn, Pandas, Matplotlib

**Cloud/Databases:** AWS Lambda, API Gateway, Aurora RDS, NoSQL, REST APIs

**Tools:** Git, VSCode, Linux, SSH, Tableau, Excel, L<sup>A</sup>T<sub>E</sub>X

**Coursework:** Software Engineering, Operating Systems, Databases, Algorithms, Machine Learning

## HONORS & ACTIVITIES

### Order of Omega Honor Society

2025 – Present

Member

WPI

### Dean's List

2023 – Present

Four-Time Recipient

WPI

### Phi Sigma Kappa (PSK)

2023 – Present

Chapter President and Alumni Relations

WPI

- Led chapter operations, organized large-scale events, and connected the chapter to the broader campus community via IFC.
- Strengthened academic performance, philanthropy initiatives, and member engagement through strategic leadership.