Evans M. Wood

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EDUCATION

Worcester Polytechnic Institute   Worcester, MA
Bachelor of Science in Computer Science & Data Science, GPA: 3.85   *Aug. 2023 – Present*

EXPERIENCE

Worcester Polytechnic Institute: Pre-Collegiate Outreach Program   Summer 2024 & 2025
Residential Program Advisor – Frontiers   *Worcester, MA*
- Facilitated two in-person, two-week STEM programs for high school students, leading technical workshops and activities.

E.H. Perkins   Dec. 2020 – Jan. 2021
Website Developer   *Hudson, MA*
- Redesigned and deployed corporate website using HTML, CSS, and JavaScript with responsive design.

PROJECTS

Sonus | Next.js, TypeScript, PostgreSQL, Prisma, SoundCloud API
- Developed a full-stack music voting platform with real-time queue updates and OAuth 2.0 authentication.
- Designed RESTful API with role-based access control separating public guest and protected host endpoints.
- Implemented auto-advancing DJ playback system with vote-ranked ordering and played-song state management.
- Engineered QR code generation and shareable event codes for frictionless guest onboarding.

Aureus | Go, Next.js, Python, PostgreSQL, OpenAI CLIP
- Designed microservices architecture with Go REST API, Next.js frontend, and Python ML service communicating via HTTP.
- Integrated OpenAI CLIP model for ML-powered coin classification with OpenCV-based multi-object detection.
- Built OCR pipeline for automated text extraction and connected external APIs for real-time price data.

Python-to-x86 Compiler | Python, x86 Assembly
- Engineered a multi-pass compiler with lexical analysis, LALR parsing, AST generation, and x86 code emission.
- Implemented intermediate representation optimization and dataflow analysis for efficient assembly output.
- Supported functional programming constructs including automatic garbage collection and lexically scoped closures.

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: Python, TypeScript/JavaScript, Go, C, Rust, Java, SQL
Frameworks/Libraries: React, Next.js, Node.js, Gin, FastAPI, Prisma, Tailwind CSS
Cloud/Databases: AWS (Lambda, API Gateway, RDS), PostgreSQL, Redis, Docker, REST APIs
Tools: Git, Linux, OpenCV, OAuth 2.0/JWT, Tableau, LaTeX
Coursework: Software Engineering, Operating Systems, Databases, Algorithms, Machine Learning

HONORS & ACTIVITIES

Chapter President, Phi Sigma Kappa (PSK)

Member, Upsilon Pi Epsilon (UPE) Honor Society

Member, Order of Omega (OoO) Honor Society

Member, Institute of Electrical and Electronics Engineers (IEEE)

Dean's List   2023 – Present
Five-Time Recipient   *WPI*