Connor Heagy

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Education

Bachelor of Arts, Computer Science | Grinnell College, Grinnell, IA | 2022 - Expected May 2026

- **Relevant Coursework:** Object-Oriented Problem Solving, Discrete Structures, Imperative Problem Solving, Functional Problem Solving, Operating Systems and Parallel Algorithms, Artificial Intelligence, Analysis of Algorithms, Computational Complexity, Software Design & Development

Technical Skills

- **Programming Languages:** C, C++, Python, Java, Swift, HTML, CSS, Javascript, R
- **Software & Technologies:** SQL, Git, Maven, PostgreSQL, LaTeX, Adobe Creative Suite, Figma

Projects

VO2 Max and Running Pace Predictor | C

- Developed an application that calculates runners' aerobic fitness (VO2 max) from mile times
- Implemented algorithms to predict optimal training paces and heart rate zones based on fitness level
- Created user-friendly interface to help elite runners minimize injury risk and optimize training regimens

XCGradebook Website | Java, HTML, CSS, SQL, PostgreSQL

- Built a full-stack Maven-based web application using Java servlets for collegiate cross-country runners
- Designed and implemented RESTful API supporting complete CRUD operations for course data
- Created a social platform allowing users to rate, search, and discuss collegiate cross-country courses
- Developed database schema and queries to efficiently store and retrieve course statistics and user ratings

Work Experience

Summer Mentored Advanced Project (MAP): AI-Driven Aerobic Training Optimization | Grinnell College | June 2025 – August 2025

- Engineered a mobile iOS application that generates personalized endurance running plans and dynamically adapts future sessions using a recurrent neural network (RNN) to approximate optimal training policy based on user feedback.
- Led frontend development and UX strategy, creating high-fidelity mockups in Figma and implementing responsive, data-driven interfaces in Swift.
- Architected backend infrastructure and designed scalable SQL-based data storage to support user activity tracking and model input/output.
- Collaborated across design and research teams to align brand identity, user experience, and machine learning objectives into a cohesive product.

Computer Science Course Grader | Grinnell College | January 2025 - May 2025

- Evaluate student assignments for correctness, efficiency, and adherence to coding best practices
- Provide detailed, actionable feedback to improve students' programming skills and understanding
- Collaborate with professors to ensure consistent grading standards across course sections

Creative Director | KDIC Radio, Grinnell College | January 2024 - May 2024

- Led creative team in developing cohesive visual identity for campus radio station
- Utilized Adobe Creative Suite to create professional-quality visual content on tight deadlines