

Gustave Montana

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EDUCATION

Worcester Polytechnic Institute (WPI) | GPA: 3.6

Aug 2021 - May 2025

Bachelor's of Science - Computer Science

- Relevant coursework: Advanced Computer Networks, Database Systems, Human-Computer Interaction, Discrete Mathematics, Matrices & Linear Algebra, Analysis of Algorithms, Introduction to Artificial Intelligence, Web Development for Networked Systems

Minor - Data Science

WORK EXPERIENCE

Software Development Intern

Jun 2024 - Aug 2024

InvoiceCloud, Inc.

- Wrote 25 automated BDD test cases for UI and REST API features in Gherkin using SpecFlow in a C# and .NET environment.
- Used Selenium to map and interact with UI elements, integrating them into step definitions for BDD test cases.
- Enhanced an Azure pipeline utilizing Kubernetes clusters to enable a 5x increase in parallel testing to integrate with Sauce Labs and added support for filtering test cases using Python and Bash scripting.

RELEVANT PROJECTS

Data Collection App for WPI Global Projects Center | TypeScript, React, Node.js, Express, PostgreSQL

May 2024 - Oct 2024

- Worked in a team of 5 using the Agile methodology to develop an app tailored to the average WPI student's study abroad research project. The app allows students to join groups and collaboratively conduct their project research.
- Reviewed 20 IQP reports to determine which methods of data collection are most common in the WPI study abroad experience.
- Within the app, users can create re-usable data collection structures called forms which consist of various types of data entry. Form entries are geotagged using the user's location or a custom location and can be viewed on an interactive map.
- Interviews can be recorded and the recording transcribed by AI within the app using the AssemblyAI API.
- Conducted iterative user testing on a total of 16 students, across which the app had an 80% overall satisfaction rating.

Web Application with Brigham & Women's Hospital | TypeScript, React, Node.js, Express, PostgreSQL

Mar 2024 - May 2024

- Worked in a team of 11 using the Agile development methodology and software design pattern to deliver a functional, feature-dense prototype web application for Mass General Brigham Hospital.
- Led a front-end development engineering team, utilizing Typescript, React, and Material UI to develop the web application prototype.
- Deployed on the cloud using AWS EC, a Docker container, and AWS RDS to run the PostgreSQL server.
- The final software application prototype included hospital pathfinding, a map editor, and multiple integrated service request modules. The prototype informed the hospital representatives about potential features, user interfaces, and design approaches for the application being developed by the hospital software development team.

Market Research for a Car Sharing Start-up | WPI Study Abroad

Oct 2023 - Mar 2024

- Worked in a team of 4 with the Monteverde Commission for Resilience to Climate Change (CORCLIMA) in Monteverde, Costa Rica to conduct market research for a car-sharing start-up program.
- Conducted 15 interviews and 30+ surveys with Monteverde locals, tourists, and expatriates to assess their current travel habits and needs, and to understand their opinions on the proposed service.
- Modeled buyer and seller profiles to develop data-backed recommendations for our project sponsors on how to begin implementing the service.

TECHNICAL SKILLS

Languages & DB: Java, Python, C/C++/C#, JavaScript, TypeScript, SQL (Oracle, PostgreSQL), MongoDB, R, MATLAB, Bash, YAML, Go, Rust, HTML/CSS

Web Development: React.js, Next.js, SvelteKit, Node.js, Express, .NET, Tailwind CSS, JUnit, PrismaORM, TypeORM, Selenium

Cloud & DevOps: AWS, Google Cloud, Azure DevOps, Docker, Kubernetes, Linux/Unix, Git, GitHub, Vite

Tools & Collaboration: Microsoft Office Suite, Slack, Jira, Agile/Scrum, Full-stack development

AFFILIATIONS

Sigma Alpha Epsilon Fraternity | Massachusetts Delta

Nov 2021 - May 2025

Public Relations Chairman

Jan 2023 - Dec 2023

- Responsible for managing all chapter social media presences and developing relationships with various clubs for the 60+ person organization. Planned, marketed, and executed 5 unique events with various cultural and philanthropic organizations, total attendance of approximately 1,000+ students, and raised approximately \$2,500.

WPI Club Sailing

2021

WPI Ski and Snowboard Club

2022 - Present