

Gustave Montana

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EDUCATION

Worcester Polytechnic Institute (WPI)

Expected graduation: May 2025

Bachelor's of Science - Computer Science

- Relevant coursework: Algorithms, Computer Networks, Database Systems I, Human-Computer Interaction, Software Engineering, Systems Programming, Discrete Mathematics, Matrices & Linear Algebra

Minor - Data Science

- Relevant coursework: Probability for Applications, Applied Statistics, Sports Analytics & Entrepreneurship

TECHNICAL SKILLS

Languages: Java, Python, C/C++/C#, SQL, Javascript, Typescript, HTML/CSS, R, MATLAB, Stata, Bash
Frameworks: React, Vite, Bootstrap, Tailwind CSS, Node.js, JUnit, Express, AWS
Developer Tools: GitHub, Google Cloud, Oracle SQL, PostgreSQL, PrismaORM, Docker, Figma, VSCode, JetBrains IDEs
Other Skills: Microsoft Office Suite, Slack, Jira Agile/Scrum, Linux/Unix, Full-stack development

RELEVANT PROJECTS

Web Application with Brigham & Women's Hospital | *Typescript, React, Prisma, PostgreSQL, AWS*

03/2024 - Present

- Working on a team of 11 within an Agile development methodologies and software design patterns to deliver a functional, feature-dense prototype web application for Mass General Brigham Hospital.
- Led a front-end development engineering team, utilizing React.js, Typescript, Material UI, Express, Prisma ORM, and PostgreSQL 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 with respect to the application being written by the hospital software development team.

Market Research for a Car Sharing Start-up | *WPI Interactive Qualifying Project (IQP)*

10/2023 - 03/2024

- Worked on 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 interviews with 15 Monteverde locals, tourists, and expatriates to assess their current travel habits and needs, as well as to understand their opinions on the proposed service.
- Modeled buyer and seller profiles to present to project sponsors and made recommendations on how best to begin implementing the service.

Personal Movie Ranking System | *Javascript, React, Material UI, Firebase Firestore*

12/2023

- Developed a movie ranking web app utilizing an Elo rating algorithm, designed in React using Google's Material UI component library and Firestore, a cloud-based NoSQL database for data management.
- The user is presented with a choice of preference between two randomly-selected movies.
- The algorithm takes into account the internal rating of both movies and calculates the probability of winning for each; the value for each is then adjusted based on the user's actual choice.

WORK EXPERIENCE

Essex Yacht Club

13 Novelty Ln, Essex CT

Launch Operator & Dock Hand

09/2019 - 08/2023

- Primary operator of yacht club's boat launch, transporting 25-50 individuals to and from their moored personal vessels per shift. Primary operator of a fleet of 3 vessels used to facilitate mooring repair and other on-water services.

AFFILIATIONS

Sigma Alpha Epsilon Fraternity | Massachusetts Delta

11/2021 - Present

Public Relations Chairman

1/2023 - 12/2023

- Responsible for managing all chapter social media presences, marketing philanthropy fundraising events and developing relationships with other clubs for the 60+ person organization.