Madeleine (Maddie) Wisinski

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EDUCATION

Tulane University, New Orleans, Louisiana - GPA: 3.667 **Spring 2024**
- Majors: Engineering Physics (ABET) and Computer Science with a certificate in Computational Engineering
- Extracurricular: Scribe of Tulane Theta Tau Engineering Fraternity and Fundraising Chair for Tulane SWE

PROJECTS

Mesh Network Measurement Nodes **August 2023 - Present**
- Lead a team of 6 in creating 100+ sensor nodes for FCAT, an Ecuadorian NGO dedicated to biodiversity
- Fabricate an electronic device that measures soil moisture, temperature/humidity, and light level
- Construct the mesh network that relays to a custom full stack React & Node web application to analyze data

Tulane Makerspace Machine Control Redesign **May 2022 - February 2023**
- Implemented an open source, fullstack, NodeJS and ReactJS website from scratch for authenticating users on makerspace machinery
- Designed custom components for intuitive use and cohesive appearance
- Utilized Git Version Control to collaborate with teammate as well as push new versions

Current Water Sensors **September 2021 - January 2022**
- Created a mesh network of water sensors to detect flooding on campus for an engineering design group project
- Prototyped and iterated on custom housings and components for sustainability and sensitivity
- Designed ReactJS frontend with interactive map to report GIS data

WORK EXPERIENCE

Tulane MakerSpace **June 2022 - Present**
Fabrication Technician
- Solve problems with users and other fabrication technicians on various engineering projects and challenges
- Repair and maintain machines, such as the Bambu/Creality 3D printers and Epilog Laser Engravers
- Design custom website to safely manage machines and user permissions
- Train and guide users on correct and safe use of machines

Northwestern Mutual **June 2023 - August 2023**
Software Engineer Intern
- Increased testing coverage through unit, functional, and regression tests
- Analyzed issues with teammates while learning new concepts and methods
- Coordinated with teammates in an Agile environment on a large-scale frontend ReactJS application
- Utilized Git Version Control effectively in a complex code environment

Tulane University **January 2023 - May 2023**
Computing Concepts (MATLAB) Teaching Assistant
- Supported students through one-on-one learning for the basics of programming logic
- Assisted the professor by managing assignment grades and proctoring exams
- Led lab sessions allowing for students to work on homework and ask questions

Dickie Brennan's Palace Cafe **June 2022 - August 2022**
Line Cook
- Prepared ingredients for use during service as well as maintained a station independently
- Followed all safety and health standards according to restaurant policy and procedures
- Trained coworkers on multiple stations and dishes
- Collaborated with other stationheads to create dishes

SKILLS

Programming: Java (5 years), Python, C, C++, C#, JavaScript, NodeJS, ReactJS, CSS, HTML, MATLAB, Git Version Control, Azure Web Apps, and OpenGL in C++
Machinery: 3D Printers, Epilog CO2 Laser Engraver, CNC Mill & Lathe, Waterjet, and Woodshop & Metalshop Tools
Programs: Autodesk Fusion 360 (4 years), Adobe Illustrator, and Microsoft Suite

ADDITIONAL INFO

Hobbies: Music, Guitar, Coding Personal Projects, Biking, Cooking, Baking, and Bread-making