Madeleine (Maddie) Wisinski

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EDUCATION

Tulane University, New Orleans, Louisiana – GPA: 3.493   **Spring 2024**
- Majors: Computer Science and (ABET) Engineering Physics with a certificate in Computational Engineering
- Minor: Mathematics
- Extracurricular: Academics Chairman of Nu Epsilon Chapter of Tulane Theta Tau Engineering Fraternity
- Relevant Coursework: Data Science, Algorithms, and Statistical Signal Processing

PROJECTS

Tulane Makerspace Machine Control Redesign   **May 2022 – Present**
- Design and implement an open-source, fullstack, NodeJS and ReactJS website for authenticating users on makerspace machinery
- Create custom components for more intuitive uses and unified design language
- 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 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

Individual Design Projects: **August 2019 – May 2022**
- Laser engraved and cut artistic projects for decoration and for quick iterations of structures
- 3D printed and designed objects for class and personal projects, such as a headphone stand
- Designed a simple web app with ReactJS to calculate individual totals of a group order

WORK EXPERIENCE

Tulane MakerSpace   **June 2022 – Present**
Fabrication Technician
- Design custom website to safely manage machines and user permissions
- Repair and maintain machines, such as Ultimaker 3D printers and Epilog Laser Cutters
- Train and guide users on correct and safe use of machines
- Problem solve with users and other fabrication technicians on various engineering projects and challenges

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 co-workers on multiple stations and dishes
- Collaborated with other stations to create dishes

COMMUNITY SERVICE

ReNEW Schools – Gardening   **Spring 2022**
Volunteer
- Expanded a school's garden allowing students to benefit and learn from a larger variety of fresh foods
- Increased the plants' retention of water, allowing them to persist longer through droughts

Soul   **Spring 2021**
Volunteer
- Planted trees to absorb 1000 gallons each of excess water from storms, decreasing flooding in New Orleans

SKILLS

Programming: Java (4 years), Python, C, C++, JavaScript, NodeJS, ReactJS, CSS, HTML, MATLAB, Git Version Control, Azure Web Apps, and OpenGL
Programs: Fusion 360 (3 years), Sketchup, Inkscape, and Microsoft Suite
Tools: Soldering iron, Heat gun, 3D Printers, Laser Cutter, and Vertical Bandsaw

ADDITIONAL INFO

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