

# Madeleine (Maddie) Wisinski

New Orleans, LA | mwisinski@tulane.edu | (469) 260 - 7881 | wisinski.dev

## EDUCATION

**Tulane University, New Orleans, Louisiana** – GPA: 3.617

**Spring 2024**

- Majors: Computer Science and (ABET) Engineering Physics with a certificate in Computational Engineering
- Minor: Mathematics
- Extracurricular: Academics Chairman of Tulane Theta Tau Engineering Fraternity in Fall 2022 and TA for Computing Concepts in Spring 2023

---

## 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 in C++

**Programs:** Fusion 360 (3 years), Sketchup, Inkscape, and Microsoft Suite

**Tools:** CNC Mill, Waterjet, 3D Printers, Laser Cutter, Vertical Bandsaw

---

## ADDITIONAL INFO

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