

# MADELINE HIGGINS

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 [GitHub](#) | [madelineurl.online](http://madelineurl.online) |  [LinkedIn](#)

## TECHNICAL SKILLS

**Proficient:** Javascript, React, Node.js, Redux, Express, Sequelize, PostgreSQL, Firestore, Git, HTML, CSS, SASS, O-Auth

**Familiar:** Typescript, GraphQL, C++, SQL, Heroku, CI/CD, Webpack, Mocha, Chai, Jasmine, Python, Drupal, Axios

**Interested In:** Computer Audio Engineering, Machine Learning, RPG programming

## PROJECTS

**Xibis: A Galactic Voyage** – *Fullstack Developer* | [GitHub](#) | [YouTube](#) | [Play](#)

A nostalgic 2D game where users guide space creatures through a series of puzzles on a journey to find home

- Developed using React, Redux, Cloud Firestore NoSQL database, SASS, and pixel art SVGs
- Spearheaded integration of Redux with our Firestore database to streamline game state management
- Designed and implemented 'Reflection' puzzle; composed and implemented game music and sound effects

**Shiftpitch** – *Frontend Developer* | [GitHub](#) | [YouTube](#) | [Site](#)

A tool for improving rhythm by practicing beatmatching without waveforms or BPM counters

- Developed using React, Howler.js for sound, and SASS + Anime.js for turntable graphics design + animation
- Leveraged React controlled components to manipulate audio rates on user input & simulate turntable pitch

## EXPERIENCE

**The Grace Hopper Program at Fullstack Academy** – *Software Engineering Fellow* September 2020 – Present

- Mentor over 30 students learning the NERD stack, software architecture/design, and debugging strategies
- Conduct technical interviews for prospective students in Javascript and Python up to 5 times weekly
- Advise on agile methodology best practices as a project manager for multiple teams of 3-4 students
- Whiteboard problem solving strategies and efficiency optimizations for daily algorithm challenges

**Jet City Device Repair** – *Technician* June 2017 – May 2020

- Repaired 30-40 unique devices daily, diagnosing unfamiliar issues and executing complex repairs in under 30 minutes
- **Mastered new repairs weekly to facilitate daily sales of up to \$4K**
- Consistently recognized in 5-star customer reviews for providing an outstanding customer experience

**Northwestern University School of Communication** – *Web Assistant* | [Site](#) May 2016 – June 2017

- Modernized frontend of all department-affiliated websites to improve security and brand consistency
- Quickly learned HTML and CSS on the job to deliver on project deadlines

**WNUR 89.3FM** – *General Manager* June 2015 – September 2016

- **Led development of \$50K budget, supervising and approving large expenditures over the calendar year**
- **Generated \$15K in listener donations during WNUR's annual Phoneathon fundraiser**
- Redesigned the station's website to increase professionalism, boost journalism, and grow listeners & donations
- Recognized with *Willis L. Butler Leadership Award* for outstanding leadership in radio

## EDUCATION

**The Grace Hopper Program at Fullstack Academy, Chicago, IL**

September 2020

Certificate in full stack Web Development

**Northwestern University, Evanston, IL**

March 2016

Bachelor of Arts | Major: **Cognitive Science** | Minor: Gender & Sexuality Studies

*Coursework:* Electrical Engineering & Computer Sciences 110, Cognitive Modeling, Elementary Logic

**Cum Laude** | Dean's List 10 of 12 quarters

## INTERESTS

Vinyl DJing, music production, baking, progressive politics, boxing, microsoldering, and synth repair