

# Dakota Madden-Fong

☎ +1-415-810-0334  
✉ [maddenfong@gmail.com](mailto:maddenfong@gmail.com)  
🌐 [trifectaiii.github.io](https://trifectaiii.github.io)  
🐙 [/trifectaiii](https://github.com/trifectaiii)

## 🎓 Education

**Willamette University**  
*BA Computer Science*

2013 — 2018  
Salem, OR

## 📊 Experience

**The Coder School San Francisco**  
*Code Coach*

November 2018 — Present  
San Francisco, CA

- › Teach school-age students the fundamentals of coding in python, javascript and MIT's scratch.
- › Design and guide students through larger projects to demonstrate the value of proper code structure and organization.

**Ginzton Laboratory @ Stanford University**  
*Research Intern*

June 2013 — August 2014  
Stanford, CA

- › Worked with the Stanford branch of the LIGO project, dedicated to detecting and understanding gravitational waves.
- › Used MATLAB and CAD software to model seismic isolation and optimize parameters of a multi-pendulum cryogenic suspension system.
- › Documented and presented simulation results with interpretations.

## 🔧 Projects

**Magic: The Gathering Card Reader**

[github.com/trifectaiii/MTG-Card-Reader-Web](https://github.com/trifectaiii/MTG-Card-Reader-Web)

- › A web tool to identify cards from Magic: The Gathering, a trading card game.
- › Runs on a Bottle.py backend, using OpenCV's ORB feature detection to identify cards.

**MusiQ**

[github.com/trifectaiii/replit-music-jam](https://github.com/trifectaiii/replit-music-jam)

- › A multiplayer music quiz game, built as a web app.
- › Runs on a Node.js backend with Socket.io, enabling real-time multiplayer gameplay.

## ⚙️ Technical Skills

**Languages** Python, Javascript, HTML, CSS, MATLAB

**Tools** Node.js, Socket.io, Bottle/Flask, p5.js, OpenCV

**Skills** Full-Stack Web Development