

Dakota Madden-Fong

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🐙 [/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.

🔧 Sample Projects

Magic: The Gathering Card Reader

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

- › 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

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

Skills Full-Stack Web Development

Areas of Interest Web Applications, Computer Vision