

# Dakota Madden-Fong

Web/Software Developer

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trifectaiii.github.io

/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](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.

### Immunity

[github.com/trifectaiii/Multiplayer-Game](https://github.com/trifectaiii/Multiplayer-Game)

- > A multiplayer class-based action game, where groups of players can team up to take down waves of enemies.
- > Runs on a Node.js backend with Socket.io and a custom server-side engine. Uses p5.js for client-side rendering.

### 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, allowing up to 4 players to a room.

## Technical Skills

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

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

**Skills** Full-Stack Web Development

**Areas of Interest** Web Applications, Computer Vision, Game Development