

Dakota Madden-Fong

Web/Software Developer

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/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.

Immunity

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

- > 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, TypeScript, HTML, CSS, SASS, SQL

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

Skills Full-Stack Web Development

Areas of Interest Web Applications, Computer Vision, Game Development