

Dakota Madden-Fong

Software Engineer

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🌐 trifectaiii.github.io

🐙 [/trifectaiii](https://github.com/trifectaiii)

🎓 Education

Willamette University

BA Computer Science

2013 — 2018

Salem, OR

🔧 Experience

care.coach

Full Stack Engineer

March 2021 — July 2021

Millbrae, CA

- Worked across the entire stack: front-end, back-end, and database.
- Learned the stack architecture from top to bottom and solved architectural problems.
- Tracked down and fixed bugs across the stack.
- Concieved and implemented new features and overhauls, both internal and customer-facing.
- Ideated future possibilities and helped to plan long-term company goals.

The Coder School San Francisco

Code Coach

November 2018 — February 2021

San Francisco, CA

- Taught school-age students the fundamentals of coding in python, javascript and MIT's scratch.
- Designed and guided 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.

⚙️ Technical Skills

Languages Python, JavaScript, TypeScript, HTML, CSS, SASS, SQL, PHP

Tools React, Redux, Webpack, Node.js, Django, Yii, Socket.io, Bottle/Flask, MySQL, PostgreSQL, SQLite, OpenCV

Skills Full-Stack Web Development

Areas of Interest Web Applications, Computer Vision, Game Development