

Timothy Jao

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EXPERIENCE:

Software Engineer

Yahoo!

March 2020 - Present

- Contributed to all yahoo.com domains through ad integration & monetization using JavaScript, TypeScript & PHP
- Worked with project managers and backend engineers to create components that increased ad views and consumer interaction
- Cleaned up and added documentation to legacy code to benefit all current and future programmers

Electrical Engineer

FreshRealm

August 2018 - February 2019

- Designed, built, tested and debugged pick-and-drop robots that automated food packaging processes improving assembly time by over 30%.
- Planned, deployed and maintained RFID system that tracked inventory and kept records of sales resulting in 10% decrease in waste and 8% increase in sales.
- Wrote and modeled multiple procedural documents and CAD drawings integral for testing and development.

Hardware Engineering Intern

Aerojet Rocketdyne

June 2017 - December 2017

- Developed, procured and assembled current and voltage regulation box for electric propulsion system to be used in space travel.
- Tested and debugged electronic boxes by following documented procedures and using common testing tools.
- Constructed a test rig and complementing harnesses to test-fire rocket thrusters.

PROJECTS:

Mrs.Snacc-Man (MongoDB, Express, React.js, Node.js, socket.io, CSS)

[live](#) | [github](#)

A multiplayer Pac-Man game

- Integrated socket.io to set up connections between multiple web clients and back-end server, allowing for bi-directional communication and synchronization among players.
- Created shortest path algorithm using variation of breadth-first search for ghosts to chase Mrs. Snaccman.
- Incorporated Agile development, daily Scrum meetings and git workflows which led to increased efficiency and streamlined communication.

Dunder (React.js / Redux, Ruby on Rails, ActionCable, PostgreSQL, AJAX)

[live](#) | [github](#)

A Slack-inspired messaging app based on "The Office"

- Built RESTful APIs using Rails' MVC architecture that performed CRUD operations essential for manipulation of front-end components.
- Implemented search bar with debouncing function that queries database for users and messages.
- Generated user authentication by connecting backend database-level validations and frontend components using AJAX calls to send and retrieve data.
- Employed Rail's ActionCable library (web sockets) to allow real-time chat between different users.

OPEN SOURCE PROJECT:

Code for San Francisco - OpenTransit (React.js, Flask)

[live](#) | [github](#)

SF public transportation data visualization app used to inform policymakers and citizens about the quality of various routes

- Addressed and submitted pull requests for tickets regarding frontend changes to improve the UI/UX of the app
- Participated in weekly code reviews and hack sessions with other members of the team.

EDUCATION:

University of California, Los Angeles - BS Electrical Engineering

October 2014 - Jun 2018

Relevant Courses: Intro to Computer Science, Computer organization, Machine Learning, Computer Networks

AppAcademy

March 2019 - June 2019

Rigorous 1000-hour software development course with <3% acceptance rate. Topics include: Web-application development, TDD, Scalability, Algorithms, OOP, RESTful APIs, CRUD, React / Redux and SQL