

DAVID TAN

Software Engineer

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SKILLS: React, Redux, Ruby on Rails, PostgreSQL, JavaScript, TypeScript, Ruby, SQL, HTML, CSS, Firebase, MongoDB, Node.js, Express.js, AWS S3, WebSocket, Material UI, jQuery, Git, TDD

EXPERIENCE:

MIMIO, *Part-Time Software Engineering Intern, Remote* Nov 2023 - Present

- Revamped frontend for a web app using TypeScript, Material UI, and Agile methodologies, empowering content creators to craft AI-driven personas
- Constructed voice feature functionality which includes speech recognition and text-to-speech emulation for content creators' personas
- Optimized content creator onboarding by streamlining voice sample upload procedures

Freelance, *Full Stack Software Engineer, Remote* Oct 2023 - Present

- Crafted and launched a Twitch-integrated racing game, driving engagement and retention
- Implemented a chat command system for viewer participation featuring personalized vehicles
- Streamlined artwork submission for customized vehicle designs, fostering Twitch community
- Successfully conducted 150 bug-free games on alpha release with 100+ unique users

Scale AI, *Part-Time AI Testing Engineer, Remote* Aug 2023 - Present

- Provided essential human feedback for the reinforcement learning process of a large language model, contributing to its continuous improvement and enhanced performance
- Created JavaScript prompts to improve the model's code explanation and debugging abilities
- Identified and communicated improvements for AI responses, enhancing overall model quality

PROJECTS:

Davescord - React, Redux, Ruby on Rails, JavaScript, PostgreSQL, AWS, WebSocket [live](#) | [github](#)
A chat application inspired by Discord

- Built a custom RESTful API using a Ruby on Rails backend communicating with a PostgreSQL database via ActiveRecord queries
- Incorporated WebSockets for real-time messaging between users on mutual servers as well as AWS S3 for image hosting of custom user profile pictures and server icons

Itinerator - MongoDB, Express, React, Node.js, JavaScript (ES6), HTML5, CSS3 [live](#) | [github](#)
A single page web application where users can build an itinerary of activities within close proximity

- Securely stored hashed user information in a MongoDB database using the BCrypt library
- Employed Redux to manage frontend state changes in conjunction with React components to keep code DRY and to prevent unnecessary rerenders while users navigate the app
- Integrated Google Maps API to allow users to explore activity options on an interactive map

EDUCATION:

Georgia Institute of Technology, Atlanta, GA Dec 2019
Ph.D. in Mechanical Engineering (all but dissertation), 4.00 GPA

The Cooper Union for the Advancement of Science and Art, New York, NY May 2014
Bachelor of Engineering (BE) in Mechanical Engineering, 3.64 GPA