

Anthony Tzeng

Full-Stack Engineer | Irvine, CA (Open to Remote/Relocation) | (949) 375-8385 | aitzeng@gmail.com
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Professional Experience

Digital Aid Seattle | Full-Stack Engineer

Apr. 2024 - Present

Nonprofit organization focused on creating free web applications for other nonprofits

- Authored comprehensive architectural documentation covering system workflows and component structures, streamlining onboarding and increasing development speed by **33%**
- Migrated from **Supabase** to **Microsoft Azure** for database and authentication, improving system scalability while reducing operation costs by **80%**
- Integrated **Docker** to standardize development environments, eliminating all setup issues and environment-related bugs
- Refactored legacy code to improve readability and create reusable components, reducing time to build similar features by **40%**
- Optimized frontend processing time by **23%** by transitioning from frontend data manipulation to backend processing with stored procedures and views

Clearviction | Front-End Engineer

Feb. 2024 - Oct. 2024

Open-source project dedicated to helping individuals navigate the process of expungement and record sealing

- Developed and maintained a dynamic website using **Next.js** and **Sanity CMS**, improving a Lighthouse Speed Index from **1.3** to **0.8 seconds** and a **80** to **91 performance rating**
- Resolved content and display bugs by implementing **Material UI**, reducing bug reports by **40%** and leading to a **15%** increase in user retention
- Implemented **Cypress** tests for eligibility calculator, ensuring robust functionality and **70%** test coverage

Projects

The World | Full-Stack Engineer | [Github](#) | React-Native, Express, Jest, PostgreSQL

May - June 2023

Mobile vinyl-record trading application

- Linked 3rd party **API's** and implemented lazy loading with **React.js** to dynamically populate the catalog
- Architected the back-end structure for storing information and used **PostgreSQL** aggregate functions to reduce query time from **340ms** to **24ms**

Styl Forge | Full-Stack Engineer | [Github](#) | React, Express, AWS, Loader.io, PostgreSQL

May 2023

Modernized eCommerce Clothing Website

- Achieved a Lighthouse **speed index of 3.3s** while scoring **92 in best practices** and **90 in SEO** categories
- Deployed both server and database on **AWS EC2** instances and conducted benchmarking with **loader.io**, maintaining **1,000 RPS**, **0% error rate**, and an average response time of **80ms**
- Performed **ETL** for **2.5 GB** of data into a **PostgreSQL** database, facilitating seeding and seamless integration with the database and server requests

Education

Hack Reactor | Advanced Software Engineering

2023

University of California, San Diego | Biochemistry and Cell Biology

2015 - 2018

Personal

- 3rd place at Arizona State University Opportunity Hack 2023
- Coached an U8 American Youth Soccer Organization team to an undefeated season

Technical Skills

Javascript, TypeScript, React, HTML5, CSS3, jQuery, React Native, Material UI, Tailwind, Next.js, Bootstrap, Node.js, Express, PostgreSQL, MySQL, SQL, MongoDB, Axios, RESTful API, Python, Jest, Mocha, Chai, AWS, Loader.io, Cypress, Vercel, Lambda, Docker, Git, npm, Yarn, Webpack, Babel, Agile Methodology, Linux, Trello, Figma, Jira, Miro