

# Anthony Tzeng

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

- Vulcan Wireless Inc. | Deputy Program Manager/Full-Stack Engineer** May 2025 - Present
- Built a full-stack **Django/React/PostgreSQL** application with multi-page UI components, **RESTful** backend services, and a relational schema (five interconnected models) supporting hierarchical engineering data
  - Implemented session-based authentication with **salted password hashing** and **role-based access control**
  - Developed permission-controlled **CRUD** workflows, ensuring secure and structured data access
  - Managed **8** concurrent programs by driving schedules, coordinating cross-functional engineering teams, and delivering document packages and hardware for critical program milestones
  - Consistently executed hardware deliveries at a **75% on-time rate**, directly contributing to **\$8M+ in contract renewals and new program wins**
- Digital Aid Seattle | Full-Stack Engineer** Apr. 2024 - Jun. 2025  
*Nonprofit organization focused on creating free web applications for other nonprofits*
- Authored 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 (Open Source)** 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
- Five Prime (acq. Amgen) | Sr. Clinical Trial Associate** Aug. 2018 - Jan. 2022
- Managed global clinical operations for a Phase 3 trial spanning 163 sites across 15 countries

## Projects

- WUPHF! | Full-Stack Engineer** June 2023
- MERN-stack application that sends SMS, emails, phone calls, and tweets from a single interface using **Gmail**, **Twitter**, and **Twilio APIs**
  - Designed a **MongoDB** schema for storing user details and message content for multi-channel delivery.

## Education

- Hack Reactor | Advanced Software Engineering 2023
- University of California, San Diego | Biochemistry and Cell Biology 2015 - 2018

## Technical Skills

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