

# Adam Gienapp

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## Technical Skills

**Front end:** JavaScript (ES5 and ES6), ReactJS, HTML5, CSS3, Bootstrap, D3.js

**Back end:** Node.js, Express, Firebase, MongoDB, MySQL, PostgreSQL, RESTful API development, Nginx

**Testing / Deployment:** Jest, Enzyme, Mocha, Chai, CircleCI, AWS EC2, Artillery.io, Loader.io, New Relic

**Developer tools:** Git, npm, Webpack, Babel, TDD, SOA, Trello, Agile Methodology

## Select Experience

### ScratchTrack | Freelance | scratchtrack.co

April 2020 - present

Front End Developer

- Fully owned web app development, built from provided UI mockups and feature specifications
- Web companion to the mobile app - allows users to access song library, perform account maintenance
- Notable features: responsive layout, smooth loading, scratch-built media player
- Integrated pre-existing Firebase back end to handle authentication, storage, and hosting

### Safran Cabin

Lead Design Engineer

July 2012 - Nov 2018

- Developed mechanical aspects of aircraft interior structures from concept through production
- Designed modular lavatory ceiling that reduced part count, weight, production time, and cost by 40+%
- Produced timely, effective solutions for in-service issues with concurrent short- and long-term plans
- Facilitated development of engineering core by mentoring colleagues and driving training/process reform

## Select Applications

### REI Mock System Design

- Redesigned and scaled the back-end of a pre-existing search bar microservice from an REI mock website
- Modelled application data in PostgreSQL, utilized GIN indexing to reduce query time in a data pool of 10M entries (worst-case latency reduced from 31 seconds to 2 seconds)
- Horizontally scaled to 4 EC2 micro instances behind an Nginx load balancer to increase throughput from 750 RPS to 3750 RPS with 71 ms average latency and 0.1% error rate.

### All Day I Dream About Servers

- A mockup of adidas' product detail page
- Created the 'Ratings & Reviews' microservice using React, Node/Express, and MySQL
- Utilized service-oriented architecture, built a proxy server to merge four microservices into one web app

### Gym Finder

- A full stack app to connect users to nearby gyms and trainers
- Built the navigation and search microservices using React and Node/Express
- Built account creation and authentication services using Firebase

## Education

**Hack Reactor** - Advanced Software Engineering Immersive

March 2020

**University of Michigan** - B.S. Mechanical Engineering

April 2009

- Relevant coursework: Computational Programming in C++ and MATLAB
- Sigma Phi Society: Treasurer (2008 - 2009)

## Publications

Perosky, J., Rabban, R., Bradshaw, J., **Gienapp, A.**, Ofosu, A., Sienko, K. (2012)

"Designing a Portable Gynecological Examination Table: Improving Access to Antenatal Care in Rural Ghana", *International Journal for Service Learning in Engineering*, Vol. 7, No. 1, pp. 1-14