

# Adam Gienapp

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## Technical Skills

**Front end:** JavaScript, Typescript, Angular, React, HTML5, CSS3, Bootstrap, D3.js

**Back end:** .NET, Node, Express, SQL, noSQL, REST API development, Firebase, Nginx, AWS

**Testing & Deployment:** Jest, Cypress, XUnit, Enzyme, CircleCI, Postman, New Relic, Loader.io, TDD

**Developer tools:** Git, npm, Webpack, Splunk, Service-Oriented Architecture, Trello, Azure, Agile Methodology

## Recent Experience

### **Rocket Mortgage | rocketmortgage.com**

Feb 2021 - present

Revolutionizing the mortgage process through a fully online experience.

#### *Software Engineer*

- Feature development and maintenance for a full-service user portal utilized by third-party mortgage brokers
- Redesigned portal authentication/authorization flow to utilize Auth0 for increased security and performance
- Designed customer-facing microsites using Angular, Typescript, and Node to improve user experience and enhance application to meet customer's needs
- Developed APIs, event consumers, and AWS lambda functions using C# / .NET Core
- Created automated end-to-end regression testing using Cypress, cutting deployment validation time by ~70%

### **The Fosh | thefosh.net**

Dec 2020 - Jan 2021

A digital statistics tracking platform for water polo aimed at replacing pencil-and-paper scorekeeping.

#### *Full Stack Developer*

- Secure API POST endpoints for use by authenticated users using Node, Express, and JSON Web Token
- Implemented offline POST request caching with automatic resubmittal on reconnect in Vue/vuex

### **ScratchTrack | scratchtrack.co**

April 2020 - Jan 2021

A platform empowering musicians to collaborate outside the confines of a dedicated practice space. Over 3,500 registered users.

#### *Front End Developer*

- Fully owned web app development, built from provided UI mockups and feature specifications
- Designed as a companion to the mobile app, allows users to access song library, perform account maintenance
- Integrated pre-existing Firebase back end to handle authentication, storage, and hosting
- Responsible for continued app maintenance, feature updates, etc.

## Recent Projects

### **Search Bar System Design**

- Redesigned and scaled the back-end of a pre-existing search bar microservice
- Modeled 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 a 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 Sneakers**

- A product detail module for an athletics clothing web store
- Created the 'Ratings & Reviews' microservice using React, Node/Express, and MySQL with a responsive, flexbox-based CSS layout
- Utilized service-oriented architecture, built a proxy server to merge four microservices into one web app

## Education

**Hack Reactor** - Advanced Software Engineering Immersive

March 2020

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

April 2009

- Sigma Phi Society

## Publications

"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