Adam Gienapp

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Technical Skills

Front end: JavaScript (ES5 and ES6), React, HTML5, CSS3, Bootstrap, D3.js
Back end: Node, Express, Firebase, MongoDB, MySQL, PostgreSQL, REST API development, Nginx
Testing & Deployment: Jest, Enzyme, Mocha, Chai, CircleCI, AWS EC2, Loader.io, Postman, TDD
Developer tools: Git, npm, Webpack, Service-Oriented Architecture, Trello, Agile Methodology

Recent Experience

The Fosh | thefosh.net   Dec 2020 - current
A digital statistics tracking platform for water polo aimed at replacing pencil-and-paper scorekeeping. Still in development.
Full Stack Developer (back-end focused)
- Secure API POST endpoints for use by authenticated users using Node, Express, and JSON Web Token

ScratchTrack | scratchtrack.co   April 2020 - current
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.

Safran Cabin   July 2012 - Nov 2018
A world leader in aircraft cabin interiors, composed of 30 sites and over 13,500 employees. Over $1.5B in annual revenue.
Lead Design Engineer
- Developed commercial airline 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 7-10 colleagues and driving training/process reform

Recent Projects

Search Bar System Design
- Redesigned and scaled the back-end of a pre-existing search bar microservice
- 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 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
- Relevant coursework: Computational Programming in C++ and MATLAB
- 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