Adam Gienapp

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Software Engineering

Technologies
Front end: JavaScript (ES5 and ES6), React, HTML5, CSS3, Bootstrap
Back end: Node.js, Express, MongoDB/Mongoose, MySQL/Sequelize, PostgreSQL, RESTful API development
Testing / Deployment: Jest, Enzyme, Mocha, Chai, CircleCI, AWS EC2, Nginx, Artillery.io, Loader.io, New Relic
Developer tools: Git, npm, Webpack, Babel, Agile Methodology, XP Methodology, TDD, SOA

Applications
All Day I Dream About Servers - a mockup of adidas' product detail page
- Created the Reviews microservice using React
- Generated unique review data for 100 products in mySQL to simulate real-world data
- Designed server-side data processing structure w/dynamic database querying to produce a lightweight client that only loads data necessary to render the page
- Utilized service-oriented architecture, built a proxy server to merge four microservices into one web app

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.

GymFinder - a full-stack fitness app built in five days
- Built the navigation bar and search services for a fitness tracker/gym finder web app using React
- Implemented account creation and authentication using Firebase
- Utilized conditional rendering to create a seamless single-page experience

Education

Hack Reactor - Software Engineering Immersive   2020
University of Michigan - B.S. Mechanical Engineering   2009
- Relevant coursework: Computational Programming in C++ and MATLAB
- Sigma Phi Society: Treasurer (2008 - 2009)

Professional Experience

Safran Cabin | Huntington Beach, CA
Lead Design Engineer   2013 - 2018
Design Engineer   2012 - 2013
- Developed mechanical aspects of aircraft interior structures from concept through production
- Designed modular lavatory ceiling that reduced part count, weight, production time, cost by 40+%
- Facilitated development of engineering core by mentoring colleagues and driving training/process reform

Karma Automotive (d.b.a Fisker Automotive) | Anaheim Hills, CA
Integration Engineer   2011 - 2012
- Provided design solutions to facilitate system integration in a hybrid-electric vehicle
- Defined and monitored occupant packaging through use of SAE measurements and practices

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