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Bryan Manuele

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Technologies and Architectures

Strong: Javascript, Typescript, React, Redux, Jest, CSS, SASS, Node, Express, SQL, Mongo, AWS EC2, Lambda, S3, Cloudfront, IAM, Docker, Git, Agile, CircleCI
Experienced: Android Kotlin, Postgres, SASS, Mocha, Chai, Enzyme, Webpack, AngularJS, Vue

Experience

Full stack Developer (React, Typescript, Redux, CSS Modules)   Germain APM April - June 2018
- Bootstrapped and lead the development of a modern and responsive client metric dashboard
- Created dynamic time-series data visualizations using D3 and HighCharts
- Enhanced backend Spring-Boot api endpoints to optimize time-series related requests

Machine Learning Embedded Systems Developer (C, Python, Matlab)   Aerendir 2017-2018
- Developed a C implementation of Support Vector Machines Classifier for embedded systems
- Played a role in architecturing the data pipeline for our machine learning algorithms
- Developed and documented proprietary Digital Signal Processing (DSP) algorithms

Android Developer (Android SDK, Maven, Grunt, Gulp)   Freelance 2014-2016
- Developed and deployed three open source apps with over 5000 cumulative downloads
- Practiced agile and minimum viable product principles that allowed for responsive and scaling apps
- Wire-framed and prototyped layouts for an agile and UX focused development cycle

Physics Show: Presenter and Coordinator   Foothill College Physics Department 2015-2017
- Developed and presented physics and engineering demonstrations to students from Title X schools
- Regularly presented to audiences upwards of 2000 students of all ages

Notable Projects

Foodsie *A web app where users map out and share their favorite food spots* (React, Redux, Serverless)
- Integrated interactive maps into a single-page React + Redux application using Google maps API
- Developed a continuous testing and deployment pipeline using CircleCI
- Deployed using a scale agnostic architecture built with s3, cloudfront, and serverless

Chompy Restaurants *A restaurants review aggregator web app* (React, Redis, AWS, MySQL)
- Generated and seeded MySQL with 10 million records and optimized queries to take < 2 ms
- Load-tested and scaled backend microservice to achieve > 1000 rps on AWS EC2 micro
- Deployed application using a microservice architecture where each module was dockerized load balanced using AWS load-balancer

Symbolic-Calculus *An open-source npm package for symbolic calculus* (Node, Mocha, Chai, NPM)
- Developed an algorithm for string to equation-tree interpolation and for symbolic differentiation
- Wrote a robust suite of unit tests with mocha and chai and achieved 100% test coverage before deploying to NPM

Honorable Mention Projects:
    LearnMachineLearningJS *A complementary repo I built for a presentation on ML in JavaScript*
    CoinPredict *A Python GDAX scraper that uses tensorflow to predict trends in Ethereum prices*

Education

Hack Reactor	*San Francisco, CA*	Advanced Software Engineering Immersive Program	2018
Foothill College	*Los Altos, CA*	AA in Mathematics | AA in Physics	2017