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Bryan Manuele

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Technologies and Architectures

Strong: Javascript, ES6+, React, Redux, Jest, Routing, React-Router CSS, Less, Node, Express, mySQL, Mongo, Redux, AWS EC2, Lambda, S3, Cloudfront, IAM, Docker, git, agile, circleCI
Experienced: Android, Postgres, SASS, Mocha, Chai, Enzyme, Webpack, Angular, Vue

Experience

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

Physics Show: Presenter and Coordinator   Foothill College 2015-2017
- Developed and presented physics and engineering demonstrations to students from title X schools to increase their exposure and interest in the sciences
- Regularly presented to audiences upwards of 2000 students of all ages
- Lead the development of the demonstrations and the script

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

Notable Projects

Chompy Restaurants *A restaurants review aggregator web app* (React, Redis, AWS, mySQL)
- Load-tested and scaled backend to hit 1000 rps on aws EC2 with a database seeded with 10 million restaurants and stress tested for a performant user experience
- Deployed application using a microservice architecture where each module was dockerized load balanced using aws load-balancer

Symbolic-Calculus *An npm package for symbolic calculus* (Node, Mocha, Chai, NPM)
- Functioning string to equation-tree interpolation and symbolic differentiation
- Complete and robust unit testing suite with mocha and chai and deployment to npm

FoodSpots *A web app where users map out and share their favorite food spots* (React, Redux, Serverless)
- Uses the Google maps and places APIs in React with a Redux store
- Continuous deployment using circleCI to s3, cloudfront, and serverless lambda

Honorable Mention Projects:
   LearnMachineLearningJS *A complementary repo I built for a presentation on ML in js*
   Fermidirak.github.io *My personal website using vanilla html, css, js*
   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

Personal

There's no greater joy for me than sharing with and teaching others the things that excite me. Whether the topic is technical, non-technical, scientific, or just plain fun, I've given presentations on topics ranging from the fundamentals of machine learning, to a how-to on remixing songs with turntables. I'm also a writer on Medium where I publish articles on tech and I also dj as a hobby on soundcloud.