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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, AngularJS, 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 architecting 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)

- 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

**FoodSpots** *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, serverless, and AWS Lambda

**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

## 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 regular publisher of online media, from technical articles on Medium to electronic music on Soundcloud.