Bryan Manuele

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TECHNICAL SKILLS

Front-end: JS, React, Redux, RxJS, AngularJS, Vue, D3, Jest/Enzyme, Mocha/Chai, Sass, HTML, CSS3+
Back-end: Node.js/Express, Rails, Go, Spring-Boot, MySQL, MongoDB, AWS, Docker, Serverless

PROJECTS

Foodsie.io: *Tailored Restaurant Reviews app for foodies* – github.com/fermidirak/foodsie

- Used React, Redux, and CSS Modules to deliver a highly scalable and modular UI/UX
- Integrated Google maps and places API for retrieving information on nearby restaurants
- Implemented a custom CSS Grid for a responsive and both mobile and desktop friendly user experience
- Set up a custom babel config to cache bust static assets and ensure bundle size never exceeds 30KB

Chompy: *System design of restaurant reservation app* – github.com/fermidirak/chompy

- 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 microservice with Docker using AWS EC2, RDS, and Redis to reduce coupling

Symbolic-Calculus: *A Node package for symbolic calculus* – github.com/fermidirak/symbolic-calculus

- Developed an algorithm for string to equation-tree interpolation and for symbolic differentiation
- Deployed to NPM according to the UMD spec with well documented usage and contribution guidelines
- Wrote a robust suite of unit tests with mocha and chai and achieved 100% test coverage

EXPERIENCE

Germain APM, *Full Stack Engineer – San Francisco, CA* 2018

- Developed a modern and responsive metrics dashboard for time-series data using D3
- Enhanced backend Spring-Boot api endpoints to optimize time-series related requests

Aerendir, *Data Science (Machine Learning) Intern – Mountain View, CA* 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

Berkeley E3S Labs, *NanoPhysics Research Assistant – Berkeley, CA* 2016

- Investigated the semi-conducting properties of atomically smooth Graphene Nanoribbons

EDUCATION

Hack Reactor, *Advanced Software Engineering Immersive – San Francisco, CA* 2018

Foothill College, *A.A Physics, A.A. Mathematics – Los Altos, CA* 2013

PERSONAL

- I'm an amateur DJ and music curator. I've played open decks at two major festivals and practice regularly
- I'm an editor on HackerNoon and a frequent publisher of technical articles. I'm an academic at heart and I love sharing what I know through open source, though talks at meetups, and through my articles.