

Bryan Manuele

@FermiDirak Full Stack Developer

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TECHNOLOGIES

Front-end: JS, React, Redux, Angular, Vue, D3, Jest/Enzyme, Mocha/Chai, Sass, HTML, CSS3+

Back-end: Node.js/Express, Ruby/Rails, Go, Spring-Boot, MySQL, MongoDB, AWS, Docker, Serverless

PROJECTS

Foodsie.io: *Tailored Restaurant Reviews app for foodies* – React, Redux, CSS Modules, Jest

- Integrated Google maps and places API for retrieving and displaying information on nearby restaurants
- Built a modular and responsive component library to achieve a cohesive cross platform user experience
- Set up a custom babel config to cache bust static assets and ensure bundle size remains below 1MB

Chompy: *Microservice design of restaurant reviews service* – React, stylish, Redis, Postgres, Docker, AWS

- 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

Instabot.js: *A cli-based Instagram automation tool* – Node, Typescript, Puppeteer, NPM

- Empowered users to post content and automate following on Instagram directly from the cli
- Used Puppeteer to traverse Instagram's web interface and simulate authentic user input
- Built a high quality POSIX cli api to allow for easy sequencing with other tools such as cron

Symbolic-Calculus: *A Node package for symbolic calculus* – Node, Mocha, Algorithms, 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

Medium.com: *Editor on HackerNoon and Noteworthy* – Technical Leader, Public Speaker, Tech Advocate

- Published technical articles on Web Engineering topics ranging from 'Best practices for building React apps' to 'Implementing JWT Authentication' to 'The Tradeoffs to using Serverless Backends'

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 architecting 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

Independent Mobile Developer, Android (Java SDK), Maven, Gulp – Palo Alto, CA

2014-2016

- Developer and deployed three open source apps with over 5000 cumulative downloads

EDUCATION

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

2018

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

2013