

# Bryan Manuele

@FermiDirak Full Stack Developer

[linkedin.com/in/bryanmanuele](https://www.linkedin.com/in/bryanmanuele)

[github.com/fermidirak](https://github.com/fermidirak)

ManueleBryan@gmail.com

(650) 714-7783 • San Francisco, CA

## 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

2015-2017