

Brian Nelson

SOFTWARE ENGINEER

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Applications

Backend

- Led team of three developers towards the creation of a highly performant API using agile methodology
- Implemented entirely new backend without making breaking changes for the frontend
- Parsed CSVs with millions of rows with the purpose of reorganizing database schema and improving read/write times
- Deployed a kubernetes cluster to AWS EC2 with PostgreSQL, redis and node
- Used travisCI and minikube to automate testing and create an easier workflow

Frontend

- Created a responsive single page react/redux application to provide an intuitive UI/UX experience for a clothes shopping website
- Built test suite using jest and implemented a CI/CD pipeline using travisCI
- Implemented a consistent design across multiple modules using material-ui

Surf Forecast Analyzer

- Built web scraper to gather swell data from hundreds of locations using puppeteer
- Used jupyter notebooks to visualize the data and make predictions over time

Pair Programming Productivity Tool

- Created pomodoro timer and github commit tracker used by students at Hack Reactor with node, typescript and MongoDB
- Designed the application to encourage even split of time between driving and navigating regardless of skill level

Skills

Languages	Javascript/TypeScript, Java, HTML/CSS, bash scripting
Frontend	React, Redux, material-ui, JQuery, React-Router
Backend	NodeJS, Docker, Kubernetes, MySQL, PostgreSQL, MongoDB, Redis, Fastify, Express
OS	Ubuntu, Debian, fedora, Arch Linux, Alpine
Tooling	TravisCI, Jest, Mocha/Chai, Puppeteer, Git, npm/yarn, Babel, Webpack

Experience

Split Second Racing

Asbury Park, NJ

RACE DIRECTOR

2018 - 2019

- Directed teams of volunteers to organize large scale athletic events for up to 8000 people
- Coordinated with local government officials, police and race sponsors to ensure that everything went smoothly and met client expectations
- Managed deployment of mission critical RaceResult timing system to provide real time accurate results online and by text message to all participants

Education

Hack Reactor

New York, NY

ADVANCED SOFTWARE ENGINEERING IMMERSIVE

2019

Brookdale Community College

Lincroft, NJ

COMPUTER SCIENCE - PROGRAMMING

2018

- 3.88 GPA

Relevant Coursework

- Data Analysis Codecademy Pro Intensive with Python
- MITx Introduction to Computational Thinking and Data Science
- MITx Introduction to Computer Science and Programming Using Python