

# Brian Nelson

SOFTWARE ENGINEER

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## Applications

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### Backend

- Led team of three developers towards the creation of a highly performant API using agile methodology
- Refactored existing codebase to increase performance without making any breaking changes
- Parsed CSVs with millions of rows to reorganize database schema and improve 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

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

## Experience

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### 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

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### 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