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 kops kubernetes cluster to AWS EC2 with PostgreSQL, redis and node
- Used travisCI for CI/CD and developed locally with minikube

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