

Brian Nelson

SOFTWARE ENGINEER

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Applications

Backend

- Led team of three developers towards the creation of a new highly performant REST API without making breaking changes for the frontend
- Reorganized gigabytes of data in PostgreSQL and implemented a smart caching strategy with redis to improve read/write times
- Deployed everything to a kops kubernetes cluster on AWS EC2
- Used travisCI for CI/CD and developed locally with minikube
- Utilized loader.io to load test the application and inform future design decisions

Frontend

- Created a responsive single page react/redux application to provide an intuitive UI/UX experience for a clothes shopping website
- Closely followed design specification while making all technical decisions
- Built test suite using jest and implemented a CI/CD pipeline using travisCI
- Used material-ui to create a consistent design across components

Pair Programming Productivity Tool

- Created pomodoro timer and github commit tracker used by students at Hack Reactor with node, react and MongoDB
- Designed the application to encourage even split of time between driving and navigating regardless of skill level
- Enabled students to see git commits on a per pomodoro period basis and allow for planning of future sprints

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 RaceResult timing system to provide real time accurate results online and by text message to all participants

8+ years desktop linux experience

HOBBYIST

2011 - present

- Passionate about open source, used various linux distros on my laptop and on home servers

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