

Carter Brooks

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Technical Skills

Front-End | JavaScript (ES5 and ES6), React, HTML5, CSS3, Tailwind CSS, Axios, Next.js, Material UI

Back-End | Node.js, Express, MongoDB, Mongoose, MySQL, SQLite, PostgreSQL, pgAdmin, RESTful API, Prisma

Testing/Deployment | Jest, Mocha, Chai, AWS: EC2, Artillery, Loader.io, NGINX, Lighthouse

Developer Tools | Vim, Git, npm, yarn, Webpack, Babel, Agile Methodology, Postman, Vite, Trello, Jira

Software Application Development Experience

Full Stack Engineer | Pursuit | [Github](#)

2023

Full Stack Job Search App | (React, Next.js, Node.js, Express, Material UI, Prisma, PostgreSQL, RESTful API, AWS)

- Collaborated with a team of six full stack engineers to establish a feature branch **git workflow**, ensuring efficient and rapid development for the app
- Adapted to new technology requirements put in place by the team App Architect by implementing **Next.js** and **Prisma**, while maintaining strict time constraints
- Leveraged **Next.js** server-side rendering to deliver fast and optimized pages for an improved user experience

Software Engineer | Monarch | [Github](#)

2023

Data Migration and Scaling | (React, Node.js, Express, RESTful API, Artillery, Loader.io, NGINX, AWS, PostgreSQL, pgAdmin)

- Built a server, database and **RESTful API** using **Node.js**, **Express**, and **PostgreSQL** to replace an outdated back-end system that contained over 10 million records
- Utilized **SQL** queries to aggregate, manipulate and join data from multiple tables
- Increased throughput by 230%, handling 1000 RPS with an average response time of 11ms and 100% completion rate by deploying a single server on an **AWS EC2** instance
- Implemented an **NGINX** server to load balance 5 server instances and increase 100% completion throughput by 4x

Software Engineer, Swan Related Products Services | [Github](#)

2022

Front-End Ecommerce Web App | (React, Node.js, Express, Tailwind CSS, RESTful API, AWS, Lighthouse, Jest)

- Built a responsive carousel **React** component, allowing users to navigate through products in a visually appealing and intuitive way
- Utilized **Tailwind CSS** to elevate the design of components, provide seamless light/dark mode switching and ensure a fully responsive experience across all devices
- Enhanced **Lighthouse** overall performance score for desktop by 500% and 240% for mobile by implementing production mode in **Webpack** minimizing our file size

Professional Experience

Founder | Steria LLC

December 2021 - August 2022

Operations Consulting for a Data Center On-Demand Remote Hands, Infrastructure Deployments, Optical Testing, and IT Asset Disposition Start Up

- Coordinated hundreds of projects with international teams, spanning from one day to multiple weeks, by effectively communicating and collaborating with remote team members to achieve goals and deliverables
- Optimized internal workflow by automating ticket management using Jira Service Management, resulting in improved efficiency and faster resolution of issues

Petroleum Engineer | Ventex Oil & Gas, Inc.

November 2015 - March 2021

- Supervised production operations across three states including daily communication with 10+ team members to ensure minimal downtime and allowed for maximum extraction of hydrocarbons
- Analyzed potential acquisition targets by performing reserve and economic evaluations, resulting in the identification of profitable opportunities and increased revenue for the company
- Developed and implemented detailed workover plans and procedures for wells to optimize production

Education

Hack Reactor | Certificate in Advanced Software Engineering

2023

Texas A&M University | B.S. Petroleum Engineering

2015

- Relevant coursework: Calc I, II, & III, Differential Equations, Programming I, Principles of Electrical Engineering