Joshua McNabb

Full-Stack Software Developer

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🪪 INTRODUCTION

I am a passionate software developer with ~5 years of professional industry experience. My personal philosophy is to always strive to learn something new.

</> SKILLS

HTML

CSS (LESS, SCSS/SASS, CSS-in-JS)

JavaScript (TypeScript)

Node (Express, Koa, NestJS)

Databases (PostgreSQL, MySQL)

ORM (Prisma, Objection, Knex)

React (Next.js, ChakraUI)

React Native (Expo, NativeBase)

Docker

CI/CD (Github Actions, Gitlab Pipelines, Kubernetes, Pulumi)

Unit Testing (Jest, Mocha/Chai)

Jira (Standardized workflows, Automation)

💼 PROFESSIONAL EXPERIENCE

Senior Full-Stack Software Developer
Launchcode ⧉
11/2020 – 08/2023 | Calgary, Canada
Oil & Gas Web Application
- Worked with Lead Developer for two months then became project lead
- Worked closely with the client in meetings to understand their requirements, and delivered the product exceeding their expectations
- Reduced time the client spent manually recording data in the field by 50%
- Mentored another developer to help them understand the tech stack, structure of the project and best practices

Healthcare Application for Cisco
- Joined during a pivotal phase in the project and undertook a complete overhaul of the frontend from scratch
- Identified and assessed structural and scalability challenges with internal libraries, and helped migrate towards open-source, well-maintained libraries
- Improved Monorepo architecture using Turborepo, reducing the time spent linting and testing code
- Learned how to handle large, complex forms in React
  - Implemented library to speed up forms by 30%
  - Tweaked code to improve performance even more
- Learned about React performance optimizations (memoization) to reduce component re-renders and speed up pages with lots of components
- Created a recurring task system using previous knowledge with iCal Recurrence Rule standard
- Helped port React Native app to Expo to improve app publishing experience, reduce time spent developing, and improve codebase overall

Junior Full-Stack Software Developer
Routeique ⧉
10/2018 – 11/2020 | Calgary, Canada
Internal Supply Chain & Logistics Software
- Helped migrate stored procedures from raw SQL to PHP, reducing development conflicts
- Learned about ORMs by helping migrate raw SQL to Eloquent (Laravel's ORM)
- Built a recurring order system using PHP (Laravel), JavaScript and MySQL. Integrated iCal Recurrence Rule specification to allow users to enter how they want their orders to repeat
- Created a dynamic form builder using Object-Oriented Programming principles
- Helped migrate legacy frontend from jQuery to React using best practices

Client Projects
- Redesigned marketing website for a healthcare company, making it completely mobile-responsive

📁 PROJECTS

Competitor Fox
09/2022 – 08/2023
- Created frontend with React and ChakraUI, learning more about advanced React patterns and how ChakraUI works under the hood
- Created backend with NestJS, using best practices to allow scalability
- Learned how to use Puppeteer to scrape websites
- Learned about horizontal scaling by ensuring there could be multiple instances of the backend
- Learned more about using queues to process data separately from the main backend
- Improved CI skills by writing Github actions to build, test and lint code
- Learned more about CD by automating deployments to DigitalOcean's container registry via Docker images

Spotalytics
2018
- Created the frontend using React and TypeScript
- Learned about authenticating to an API via OAuth
- Integrated Spotify's music recommendation API, as well as various APIs to pull information about songs, artists, albums, etc
- Learned about charting/graphing libraries in JavaScript to show Spotify statistics to users

Crossroads Parts Software
2016 – 2016
- Created my first web application using HTML, CSS (Bootstrap) and jQuery
- Learned about DataTables in JavaScript to add functionality (sorting, filtering, pagination, etc) to a plain HTML table with JavaScript
- Added ability to edit multiple table rows/cells for quick and efficient data entry, cutting the time it took to record inventory in half

🎓 EDUCATION

Object Oriented Software Development
SAIT
03/2018 – 10/2018 | Calgary, Canada
Projects
- Learned OOP fundamentals
- Built a simple Windows Forms Application using Visual Studio and C# to collect user data and perform calculations
- Built an Android application with Java and Spring, along with a login page and a homepage to show flights for a hypothetical airline company