

Abhay Menon

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EDUCATION

University of Waterloo

Honours Bachelor of Computer Science

Waterloo, ON

Sep 2020 – Present

TECHNICAL SKILLS

HTML, CSS, JavaScript, TypeScript, C, C++, C#, Racket, Bash, Python, Kotlin (Learning), SQL, React.js, Node.js, Express.js, Material UI, Ant Design, Gatsby.js, Mongoose, Redux, Redux-thunk, Redis, Postman, MongoDB, Firebase, Unity 3D, VS Code, Gradle (Learning), IntelliJ IDEA, Linux, Git, Confluence

EXPERIENCE

Software Developer Intern

May 2022 – Dec 2022

BlackBerry

Waterloo, ON

- Successfully migrated an internal cloud-based console app using React and Redux by upgrading packages and migrating the Ant Design UI Library from v3 to v4, resulting in improved design, user experience and removal of vulnerabilities.
- Improved page load times by 66% via package updates and migration of the Ant Design UI Library.
- Enhanced performance of React web app by 54% through caching, pagination, and throttling of REST API calls.
- Accelerated login speed by 98% with database caching techniques.
- Led development of React coding standards and performed code reviews as front-end lead, resulting in improved code quality and team productivity.
- Utilized the Recharts library to create interactive data visualizations, improving the ability to analyze and present performance metrics for server infrastructures.

Product Developer Assistant

Sep 2021 – Dec 2021

Cloudspark Technology Labs

Toronto, ON

- Developed and implemented responsive designs for application dashboards using React, Material UI, and TypeScript, resulting in optimal user experience across various devices and screen sizes.
- Successfully integrated APIs using TypeScript, Flux architecture, and Cloudspark's APIs, resulting in seamless data exchange and streamlined workflow.
- Maintained and updated the Gatsby-based React documentation website for clients' understanding of the company's applications.
- Created and implemented automated stored procedures in CosmosDB, resulting in increased efficiency and reduced manual workload by automating data projection deletion.

PROJECTS

Heimdall (react-heim) | Node, Express, TypeScript, MongoDB, Passport, Recharts, AntD

Dec 2022 – Present

- Developed an npm package for automating admin dashboards in React apps, resulting in streamlined tasks for end-users.
- Built a RESTful API using Node.js and Express.js, adhering to the MVC architectural pattern.
- Incorporated MongoDB, Mongoose for seamless data integration and retrieval in a many-to-many relationship between users and projects.
- Optimized API response time through gzip compression, resulting in a 53% reduction in page load times.
- Implemented security measures against common web vulnerabilities and DDoS attacks using Helmet.js.
- Facilitated user authentication and cookie generation using Google OAuth 2.0 Passport.js.
- Developed an informational dashboard web application using TypeScript, React, AntD v4, and Recharts, resulting in improved user engagement.

Heyo! | React, JavaScript, Firebase, Material UI

May 2022 – June 2022

- Designed and developed a full-stack web application that enabled users to create and share posts with pictures and descriptions, utilizing Firebase for authentication and real-time database storage.
- Implemented Firebase authentication to provide secure user login and account registration.
- Utilized the Firebase real-time database to efficiently store and retrieve posts and comments in JSON format.
- Incorporated Cloud Firestore to store pictures as Blobs, allowing for easy upload and sharing of visual content.
- Leveraged Material UI to design and develop a user-friendly and visually appealing front-end, resulting in improved user experience and engagement.