Abhay Menon

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EXPERIENCE

Software Development Student   May 2022 – Present
BlackBerry   *Waterloo, ON*
- Contributed to the migration of an internal cloud-based console web application by upgrading outdated packages and migrating the Ant Design UI Library from v3 to v4
- Significantly reduced the cloud console web page loading times using code splitting, as measured by an overall 66% decrease in loading times
- Improved the performance of React web application by caching, paginating, and debouncing REST API calls, leading to an average 54% increase in performance
- Helped in accelerating the login speed of the cloud console web application by 98% using database caching
- Established a list of React coding standards for the Infrastructure Platform Group: Automation team as the frontend co-op lead

Product Developer Assistant   Sep 2021 – Dec 2021
Cloudspark Technology Labs   *Remote*
- Worked on responsive designs for application dashboards using Material UI and TypeScript
- Implemented API integration using TypeScript, Flux architecture, and Cloudspark's APIs
- Developed QA test plans using Azure DevOps
- Maintained the React documentation website for Cloudspark's applications
- Created stored procedures in CosmosDB that automated deletion of data projections

PROJECTS

Heimdall (react-heim) | *Node, Express, TypeScript, MongoDB, Passport, Recharts, AntD*   Dec 2021 – Present
- An npm package that allows users to automate admin dashboards for React applications
- Created a RESTful API using Node.js and Express.js, adhering to the Model View Controller (MVC) architecture
- Used MongoDB and Mongoose to implement a two-way embedding for a many-to-many data relationship between users and projects
- Used gzip compression to decrease the sizes of response bodies, reducing API response time by 53%
- Added protection from common web vulnerabilities using Helmet.js and DDoS attacks using node-rate-limiter-flexible
- Used a Google OAuth 2.0 Passport.js strategy to allow user authentication and cookie generation
- Developed an informational dashboard web application using TypeScript, React, AntD v4 and Recharts

Heyo! | *React, JavaScript, Firebase, Material UI*   May 2021 – June 2021
- A full-stack web application that allows users to post pictures with descriptions
- Used Firebase authentication for login and account registration
- Stored posts and comments as JSON data in the Firebase realtime database
- Enabled users to post pictures, stored as Blobs in Cloud Firestore
- Built front-end using Material UI

Course Buddy | *React, JavaScript, Material UI, Styled Components*   Apr 2021 – May 2021
- A full-stack course planner web application for computer science students at the University of Waterloo
- Used Firebase for authentication and storing selected courses

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, C, C++, C#, Racket, Bash, SQL
Libraries and Frameworks: React.js, Node.js, Express.js, Material UI, Ant Design, Gatsby.js, Mongoose, Redux, Redux-thunk, Redis
Developer Tools: Postman, MongoDB, Firebase, Unity 3D, VS Code, Linux, Git, Confluence

EDUCATION

University of Waterloo   Waterloo, ON
Candidate for Honours Bachelor of Computer Science   *Sep 2020 – Present*