HUSSAIN ABUWALA

Waterloo, Canada

Portfolio: hussainabuwala.github.io

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Technical Skills

Programming Languages: **JavaScript**, **Python**, C, C++, TypeScript, **Java**, HTML, CSS, PHP, SQL.
Frameworks: **Node.js**, Express.js, React.js, Bootstrap, EJS.
Databases: MongoDB (**NoSQL**), Google Firebase, Amazon S3, **DynamoDB**.
Tools: **Git**, **GitHub**, **AWS**, webpack, Vite, Docker, netlify, **REST APIs, GraphQL**, Postman, Insomnia, Amazon Cognito.
Skills: Front-end, **Back-end**, Agile, Full-Stack, **CI/CD**, SDLC.

Education

University of Waterloo   **January. 2022 – April 2023**
Master of Mathematics (MMath) in Computer Science, CGPA: 94/100   *Waterloo, ON*

Monash University   **February. 2016 – June 2020**
*Bachelor of Computer Science (Honours), CGPA: 4.0/4.0, **Awarded Overall Best Graduate***   *Clayton, Australia*

Relevant Experience

BillEase   **August 2020 - August 2021**
Co-Founder and Lead Full Stack Developer   *Chittagong, Bangladesh*

- Developed full-stack web applications with HTML, CSS, JavaScript for front-end & PHP, SQL for back-end, to manage bills for 5 businesses, generating $5000 in annual revenue within the first year of operation.
- Reduced data entry errors by 30% and improved overall efficiency, resulting in a 50% decrease in bill processing time for clients. Saved up to 1 hour of employees' time everyday for bill searching using SQL queries.
- Led a team of 4 software developers through the entire **Software Development Life Cycle (SDLC)**, supporting a code-base of 3000 lines and 50 users.
- Designed and integrated data visualization features, including interactive charts and graphs, enabling clients to gain real-time insights into their bill data. Increased project revenue by $100000.

Central Hardware Stores   **November 2019 – February 2020**
Software Developer Intern   *Chittagong, Bangladesh*

- Created and implemented core functionalities of a bill management application, enabling users to enter, store, and retrieve bill data efficiently, contributing to a 1 hour reduction in manual data entry time every day.
- Collaborated with a cross-functional team of 5 developers and designers to enhance the application's user interface, resulting in a 50% increase in user satisfaction, as measured by post-release user feedback.
- Deployed & Integrated Continuous Integration / Deployment Pipeline. **Reviewed Pull Requests (PRs)**, and performed deep **code reviews**. Experienced **Agile** and **Scrum** working methodologies in an office environment.

Projects

Markdown Blog (Code Preview) | *HTML, CSS, Bootstrap, EJS, MongoDB, Express.js, **Node.js**, JavaScript.*

- Designed a user-friendly and feature-rich application designed for writers and bloggers to create, edit, and delete their blogs while harnessing the power and simplicity of Markdown formatting.

StopFire (Code Preview) | *Apache Kafka, Apache Spark Streaming, MongoDB (NoSQL), **Python***

- Built to streamline the process of managing employee information where users can easily create, edit, and delete employee records, ensuring accurate and up-to-date employee data.

Star Wars Game (Code Preview)| *Eclipse, GitHub, **OOP, Java.***

- Worked with a team of 3 on an existing incomplete game comprising of more than 1000 lines of code and added multiple star wars characters and other features including different worlds in the star wars game. Performed **Unit/E2E testing**.

WatDFS (Code Preview) | *File Systems, FUSE, Remote Procedure Call (RPC), Timeout based caching, Mutex Locks, C++*

- Implemented a simplified distributed file system, WatDFS, on top of the local file system to support creating, opening, reading, writing and closing files on remote machines.
- Used an upload-download model, instead of directly accessing the remote files by forwarding the system calls to the server, files are copied from the server to the client and the client performs all operations locally.