HUSSAIN ABUWALA

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About Me

1+ yr software development experience. **Masters** in **Computer Science**. **Motto**: Stay Hungry, Stay Foolish!

Technical Skills

Programming Languages: **JavaScript / ES6, Python**, C, C++, **TypeScript**, Java, **HTML, CSS**, PHP, **SQL**.
Frameworks: **Node.js, Express.js**, **React.js**, Bootstrap, EJS, Jest.
Databases: **MySQL(Relational Database), MongoDB (NoSQL)**, Google Firebase, Amazon S3, DynamoDB.
Tools: **Git**, **GitHub** AWS, **GCP**, webpack, Vite, **Docker**, netlify, **RESTful APIs, GraphQL**, Postman, Insomnia.
Skills: **Front-end**, **Back-end**, **Full-Stack**, Agile, Testing, CI/CD, SDLC, **Problem-solving, Communication**.

Education

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

Monash University   **Feb. 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

Sorting Visualizer (Live Preview) (Code Preview) | *HTML, **React**, Bootstrap, Material UI, **JavaScript**.*

- Built an app to help users understand how different sorting algorithms work by displaying the step-by-step process of rearranging elements in a list through input controls, speed controls and visual cues.

AppliTracker (Live Preview)(Code Preview) | *HTML, CSS, Bootstrap, Google Firebase, **React, JavaScript**.*

- Created a job-tracking application designed to streamline the process of job search and application process with features such as seamless sign-up / sign-in experience and document management.

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.

Human Resources and Sales Order Warehouse (Code Preview)| *Multi-fact Star Schemas, OLAP, Access Plans, **SQL**.*

- Developed a data warehouse through the process of creating an ER diagram, data cleaning, designing multi-fact star **schemas**, OLAP queries to perform data analysis and **query optimization** using access plans and query trees.