

Chowdhury Zayn Ud-Din Shams

Mathematics Undergraduate Student

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Technical Skills

Programming	JavaScript, HTML5, CSS3, Python, Java, C++, Racket, R, SQL, OOP
Frameworks & Libraries	ReactJS, NodeJS, ExpressJS, Swing, Styled Components
Tools & Platforms	WordPress, Heroku, GitHub, Netlify, Microsoft Office

Education

University of British Columbia

September 2020 – May 2025

Bachelor of Science - Mathematics

- **Cumulative GPA:** 79.8%
 - **Models of Computation:** Software Construction, Algorithms and Data Structures, Computation, Programs, and Programming, Models of Computation
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Featured Personal Projects

Spotify Analytics App

October 2021

- Developed a full-stack web app to visualize personalized Spotify data with the help of Node.js, React, Styled Components, and the Spotify Web API.
- Developed a modern responsive UI with react, react hooks, and styled components and an algorithm to filter songs based on characteristics like danceability, tempo e.t.c.
- Learned the principles of RESTful APIs and how they relate to the Spotify API and implemented it with modern ES6 async-await methods
- implemented the Spotify OAuth flow with JavaScript
- Authorized the app with Spotify, and then build a Node server with the Express framework to handle HTTP and authentication requests
- Made use of local browser storage to store auth tokens and automatic refresh token algorithm by which users have to authorize the app once, subsequently increasing app efficiency and user experience significantly.
- Deploy the app with a React front-end and Node.js back-end to Heroku
- A simpler user-friendly and easy to understand alternative of Spotify wrapped

Commerce Cart

April 2021

- Developed an e-commerce app with admin panel to view store analytics and manage store using Object-Oriented Programming for UI and logic
- Used java swing library along with custom UI classes for an aesthetic and user-friendly GUI.
- Integrated a singleton structure so that only one instance of the main shop class is available to all other classes which helps in retaining the shop data for that particular

session without fetching data from JSON files multiple times making the application more robust and improving its integrity.

- Added filter algorithm for product filtering
- Stored user data and shop data using JSON efficiently and defined custom JSON data writers, readers, and parsers for storing only the necessary and required data from class instances.
- Fetched data from JSON database to identify and sign in returning customers with their usernames and passwords which is encrypted with a hashing algorithm before being stored in the database.

Relevant Work Experience

Co-Founder and Web Developer
Deep Blue Creatives

September 2020–Present
Dhaka, Bangladesh

- Led and assisted a team of 4 designers and developers to create efficient, effective, and visually aesthetic websites complying with industry standards.
- Developed websites for multiple niches and industries using HTML, CSS, JavaScript, WordPress, and third-party plugins for additional project functionality requirements.
- Expert in WordPress dashboard, third-party plugins such as Elementor, RankMath, and hosting components such as cPanel.
- Coached junior developers on design conventions and website analytics.
- Researched different design concepts and practices for optimum customer conversion and satisfaction for various industries.
- Consistently receive high user experience scores for all web development projects
- Proposed email marketing solutions for cart abandonment increasing returning visitors by 74%
- Implemented custom FOMO applications and programs with javascript which increased customer conversion rate by 30% and boosted up sales significantly.
- Provided training to clients for website maintenance and blog update which increased client satisfaction by 17% and user experience by 41% subsequently.
- Completed projects: <https://deepbluedigital.com> , <https://issmt.net> , <https://subsoutlet.com> , <https://munshicorp.com>, <https://journeyadviser.com.bd> , <https://osmosis.deepbluetutorials.com> , <https://deepbluetutorials.com>

Additional Experience

IT intern
Protibha Life Consultancy

June 2019–July 2019
Dhaka, Bangladesh

- Assisted in building wireframes and mock designs of the landing web page

Data analyst intern
Hapag-Lloyd (GBX Logistics)

June 2018–August 2018
Dhaka, Bangladesh

- Worked under supervision in the data analytic team to interpret data, create statistical diagrams, and find strategic trends from service analytics.