

# Nahin Chowdhury

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## EDUCATION

### University of Alberta

*Bachelor of Science with Specialisation in Computer Science*

Edmonton, AB

Sep. 2019 - Apr. 2024

## EXPERIENCE

### Software Developer Intern

May 2022 – Aug. 2023

IBM

Markham, ON

- Developed and maintained an enterprise-grade resource management web application using modern technologies such as Typescript, React, Node.js, Express, and IBM DB2
- Successfully implemented advanced caching techniques (frontend using indexedDB and backend using Redis) resulting in a significant reduction of load time from 1 minute to less than a second, optimizing user experience and system performance
- Created efficient Python data validation scripts leveraging powerful libraries like Pandas and Numpy, ensuring data accuracy and integrity
- Utilized the Box API in conjunction with Python scripting to develop and implement an automated email distribution list system
- Regularly wrote unit tests utilizing industry-standard Jest framework to proactively identify and rectify implementation bugs, ensuring robust and error-free software delivery

### Research Assistant (Web Developer)

May 2021 – Aug. 2021

University of Alberta

Edmonton, AB

- Implemented a robust and scalable RESTful API with Express.js for a web-based demo of a research paper using basic HTML, CSS, JavaScript, and Google Maps API
- Developed a dynamic JavaScript script to efficiently update the real-time dataset, leveraging the powerful Distance Matrix API to retrieve and integrate relevant data seamlessly

### Teaching Assistant

Jan. 2021 – Apr. 2021

University of Alberta

Edmonton, AB

- Assisted in teaching a second-year course (CMPUT 201) focused on professional programming principles and methods in C and Linux
- Customized grading scripts to speed up the grading process and actively participated in lab sessions to provide feedback to students

## PROJECTS

### Halal Scanner | *TypeScript, React, Node.js, Express, Google Cloud API*

Jan. 2024 - Present

- Developed a web application that allows users to take images of ingredient lists or scan barcodes to identify any Haram ingredients available
- Utilized Google Cloud API's OCR reader to read text programmatically and used RegEx to extract further the ingredient list, which led to 80% faster response time
- GitHub repository: <https://github.com/NahinChowdhury/halal-scanner>

### Social Distribution | *TypeScript, React, Django, AJAX, MySQL, Cloudinary API*

Sep. 2023 - Dec. 2023

- Collaborated within a 5-member team, following Agile principles, to develop a social media web application, where I took on the role of team leader and efficiently delegated tasks to ensure seamless progress
- Utilized Cloudinary API to upload and store images on the cloud
- GitHub repository: <https://github.com/NahinChowdhury/SocialDistribution>
- Live deployment: <https://socialdistribution.onrender.com/>

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Typescript, Java, C, HTML, CSS, SQL

**Technologies:** Linux, Git, MongoDB, Firebase, PostgreSQL, IBM DB2, Redis, Jenkins, Nginx

**Developer Tools:** VS Code, IntelliJ, Android Studio, Sublime, Travis CI

**Design Tools:** Figma, Draw.io

**Others:** Node.js, ExpressJS, React, RESTful APIs, Agile principles, Scrum principles, MVC