Labiba Iqbal

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Education

University of Waterloo Graduated April 2025
Bachelor of Applied Science, Computer Engineering *Waterloo,ON*

Experience

Software Engineer Intern September 2022 – April 2023
Allstate Canada, Consumer Marketing Team *Markham, ON*

- Collaborated cross-functionally to remodel the My Allstate Insurance application by implementing new features such as French language support and province-specific service availability using **ReactJS**, while optimizing existing functionalities to improve accessibility, customer interaction, and overall satisfaction.
- Integrated **RESTful APIs** with SQL database to serve date to the My Allstate Insurance app and internal agent dashboards, optimizing CRUD operations and enabling efficient real-time access across applications.
- Developed and executed unit tests with **Jest** to validate frontend components, increasing test coverage by **35%** and improving application reliability.
- Configured **Jenkins** with Git to automate builds and deployments, reducing failed deployments by **30%** and improving system reliability.

Frontend Developer Intern May 2021 – August 2021
Replic *Waterloo, ON*

- Designed an eCommerce web application using **React**, **Node.js** and applied **mobile-first approach** when designing new features to ensure consistency and usability across various devices.
- Utilized **Postman** to experiment with various parameters for API testing ensuring robustness and reliability of the application.
- Generated webpages to account for **accessibility** issues to comply with the Accessibility for Ontarians with Disabilities Act (AODA), vastly improving the user experience for every customer.
- Built a seamless eCommerce functionality by implementing **RESTful API** calls that enabled efficient communication between frontend components and backend services, enhancing data flow and user experience.

CyberSecurity (Phishing) Research Intern September 2024 – December 2024
University of Waterloo, Faculty of Engineering *Waterloo, ON*

- Developed a security analysis program using **Python** to automate the extraction of key email header information including SPF, DKIM, and DMARC signatures to identify phishing emails with up to **74%** accuracy using the Nazario Dataset.
- Processed the Nazario phishing dataset and built an **SQLite3** database to store and organize data, enabling efficient analysis and extraction of key insights, such as identification of commonly impersonated company names and patterns in malicious hyperlink structures, to identify areas of improvement within cybersecurity programs.
- Developed a **Django**-based web interface that enables users to upload phishing emails or manually input email details, automatically parsing and providing tailored, sector-specific advice on potential phishing threats for improved decision-making.

Projects

ReactSpringUploader | *Springboot, React.js, AWS3*

- A Spring-boot application integrated with React.js that enables users to upload files to Amazon S3 with ease.

SoundForge | *Django, RapidApi*

- A full-stack music streaming web application using Django, integrating user authentication, playlist management, and real-time data from RapidAPI to replicate core Spotify features.

Technical Skills

Languages: Python, Java, JavaScript, Typescript, HTML, SQL, CSS, C++, C
Frameworks: React, Node.js, Django, Spring Boot, Material-UI, RestAPI
Database: MongoDB, PostgreSQL, MySQL
Developer Tools: AWS3, Git, Jenkins, Postman, IntelliJ, Eclipse, Figma, Jira