

Billy Aggarwal

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Education

York University

Bachelor Of Engineering - Software Engineering, Specialized in Big Data

Toronto, Canada

Graduation Date: 06/15/2026

Awarded Dean's Honor Roll for securing a GPA greater than 7.5 in first year.

Work Experience

Software Developer

Goeasy Ltd

January 2025 – August 2025

33 City Centre Dr

- Resolved **20+ bugs** involving bugs, creating new features and migrating and populating data onto dynamic websites.
- Led UI revamp of legacy loan application, reducing load time from **7s to 2.7s** by optimizing React rendering, Firebase reads, and lazy-loading components.
- Worked on **5+ Canada wide web applications** simultaneously involving TypeScript, JavaScript and utilizing multiple architectures such as **React, Model-View-Controller, Sagas and Apollo**.
- Built GraphQL resolvers to auto-generate credit reports via Contentful and third-party credit APIs, applying **Node.js, async handling**, and schema stitching. Debugged **8+ backend issues** tied to API response shape mismatches.
- Assisted in development of internal Flutter app for 500+ area managers to streamline event discovery, using Firebase for dynamic updates and search filtering.
- Spearheaded CI/CD pipeline revamp (ongoing) to streamline deployments and standardize onboarding across cross-functional teams
- Delivered AI POC using a fine-tuned LLM to auto-generate customer replies and classify sentiment from email database structured into JSONL.
- Restructured Google Analytics pipeline to eliminate junk data, clarify “app lands,” and improve tracking accuracy; applied **event tagging, pageview filtering**, and GA4 funnel visualization.

Research Assistant

Laboratory of Advanced Biotechnologies for Health Assessment

January 2024 – June 2024

York University

- Co-authored a biology research paper to detect the presence of Hepatitis using LFA strips.
- Performed Image Processing techniques on more than **100** test strips using MATLAB and **Python** to calculate the concentration of a particular protein.

Related Projects

Space Explorers Mission

Zero To Mastery School

July 2024 – August 2024

Personal Project

- Built a **NodeJS** backend application to sort habitable planets and launch space missions with real-life rockets and date. Used **MongoDB** to store and manage the database.
- Integrated **SpaceX API** to include all previous missions of SpaceX including list of customers.
- Applied extensive knowledge of **Express** module, **npm** modules, and user authentication using Google.
- Used **workflows for continuous development** and **continuous integration**.

Crown Clothing Website

Zero To Mastery School

April 2024 – July 2024

Personal Project

- Designed a clothing website using **React library** with JSX. Used **HTML, CSS, SCSS** and **JavaScript** to build the front-end from **scratch**.
- Used **Google's Firebase** cloud for storing user's credentials and signing in and out users.
- Possessed features such as **signing in from Google** and checking out and **paying** a clothing item using a credit/debit card.

Technical Skills

Languages: JavaScript, Java, C, RISC-V, Python, Verilog programming, Structured Query Language (SQL)

Certifications: Complete React Developer, Complete NodeJS Developer, Mastering Coding Algorithms, Deep Learning Specialization, Improving Deep Learning Neural Networks, Structuring ML projects

Developer Tools: Git, VS Code, Contentful, Azure Dev Ops, Google Analytics, Google Tag Manager, LookerStudio, Confluence, JIRA, Azure, Postman