

Wafeeqa Chowdhury

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EDUCATION

Queen's University

Bachelor of Computing (Honours), Specialization in Software Design

Kingston, ON

University of California, Irvine

Exchange semester

Sep. 2023 - Dec. 2027

Irvine, CA

Jan. 2026 - June 2026

Awards: Queen's Commitment Scholar; Killam Fellowship by Fulbright

Relevant Coursework: Data Structures, OOP, System Level Programming, Computer Architecture

GPA: 3.51

EXPERIENCE

Software Engineer Intern | React, Express.js, Django, SQL, Linux

May 2025 – Dec 2025

Royal Bank of Canada (RBC)

Toronto, ON

- Rebuilt legacy **Django + HTML** system into a **React + Express** app, improving page load performance and enabling client-side filtering for 9 reporting teams.
- Built **REST API** and admin interface serving **155K+ records**, enabling analysts to manage Key Risk Indicators directly and removing dependency on **SharePoint** and data team requests.
- Automated monthly data pipelines with **cron jobs**, eliminating manual triggers that previously caused dashboard outages.

EXTRACURRICULARS

Technical Consultant | Python, ScrapingBee, NumPy, FastAPI

March 2025 – Present

Queen's Startup Consulting

Kingston, ON

- Developed a **Python web scraping API** using **ScrapingBee** to query **4 resale marketplaces** on-demand from user product inputs, enabling **Cache** users to **instantly value their wardrobe** without manual price research.
- Built a **Python REST API** and **ETL pipeline** that queried **2.2M transportation records** to surface 58K qualified trucking companies for a Canadian investment banking boutique, reducing a manual sourcing workflow from hours to 30 seconds.

Web Development Executive | React, Express.js, MongoDB, Linux

September 2024 – Present

Queen's Web Development Club

Kingston, ON

- Developed and delivered weekly educational content to teach **150+ students** modern web development technologies, including **React, MongoDB, and NodeJS** and SDLC methodologies such as **Agile, Waterfall, and Iterative**.
- Managed and deployed over **10+ client websites** on **Linux servers using Nginx**, ensuring optimal performance and high availability.

PROJECTS

Co-Habit | Spring, PostgreSQL, React, Docker, GitHub Actions

- Developed a responsive web application for household chore tracking, enhancing roommate communication by automating chore assignments and tracking completion
- Deployed a **robust CI/CD pipeline with GitHub Actions**, reducing deployment time to under **40 seconds** and ensuring seamless updates to an **AWS EC2 instance**.
- Containerized the application using **Docker**, enabling consistent and portable deployments across different production environments.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, SQL, C/C++, Bash

Libraries and Frameworks: Django, Express.js, React, Next.js, Node.js, Tailwind, Spring, Flask

Development Tools: Linux, Git, MongoDB, Postman, Nginx, PostgreSQL, Jira + Agile

DevOps: Amazon Web Services, GitHub Actions, Docker, CI/CD