

Ram Chawla

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Education

University of Toronto

2020-2024

Honours Bachelor of Science, major in **Computer Science** and minor in **Economics**

- **President's Scholar of Excellence:** Awarded to top **150** most distinguished students
- **Executive Member:** Executive member of U of T Computer Science Student Union

Experience

Royal Bank of Canada

May 2023 – Present

Software Engineer Intern

Toronto, Ontario

- Utilized **multi-threading** to enhance the efficiency of a JCasC script in appcodes, achieving a downtime reduction from **2 hours to 5 minutes**, facilitating agile hotfixes and expediting releases.
- Contributed to migration of deployment pipeline from **Jenkins** to **GitHub Actions**. Implemented custom Github Actions, **CI/CD** workflows and a slackbot for real-time notifications - Increasing deployment efficiency by **40%**.
- Led a cross-functional team in building a web app from scratch using **React** and **Fast API**. Leveraged **GenAI** for automating governance processes to be integrated into enterprise-wide deployment and documentation tools.

Reno Tahoe Rental Car

Apr 2022 – Present

Head of Engineering

Reno, Nevada

- Led end-to-end architecting and developing of MVP and **SaaS** platform Web apps with customer-facing and admin panel components - directing a team of **5** engineers.
- Built and maintained technological infrastructure using **React** and **Django**. Developed robust, scalable, modular and API-centric infrastructures, integrating **Sendgrid**, **Twilio**, and **Stripe** for messaging and payment.
- Developed comprehensive testing frameworks around specific e-commerce use-cases to ensure reliability and scalability. Directed client meetings to ensure fulfillment of product functionality requirements.

Light Consulting

Feb 2022 – Jul 2022

Founding Engineer

Toronto, Ontario

- Co-founded a Toronto-based software consulting firm providing services from scaling engineering teams, building new products or improving existing ones, and operating as an engineering pod.
- Worked with numerous engineering teams - including **Google**, **Coinbase**, **Brex**, **Canada-life**, and **Tallied**, amongst others - at different stages of production to make crucial architectural and product decisions.

EcoCart

Dec 2020 – Apr 2021

Software Engineer Intern

San Francisco, California

- Architected and built Shopify app using **Django**, sustaining a customer base of **500+ businesses**. Created and translated wireframes into reliable code adhering to **SOLID Design principles** and **Clean Architecture**.
- Deployed the app via **digital ocean droplets** to support scaling. Performing **unit** and **instrumentation tests** to identify bottlenecks, rectify bugs, and optimize application performance.

Projects

Korotu Technology | React Native, NodeJS, ExpressJS, Typescript, Jest

- Developed a mobile app integrating a **machine learning model** with **70%** accuracy for tree identification using **React Native**. Implemented user **authentication**, PlantID API, and a Google ML model for tree classification.
- Created an image library to store and manage user-uploaded pictures and integrated the device's built-in camera for live photos. Built backend with **Node** and **Express** with **Typescript**, using **Heroku** and **Azure** for deployment.

AirBnB Clone | Django, Django REST, ReactJS, HTML, Bootstrap

- Led Development of AirBnB-inspired web app using **ReactJS** and **Django** framework. Implemented sign-up, **JWT authentication**, property search, and listing creation utilizing modern technologies, adhering to **RESTful** principles.
- Engineered reservation workflows with host approval and dynamic notifications. Introduced a robust review system for users and properties, enhancing the user-centric platform experience.

Technical Skills

Languages: Python, JavaScript, Java, C, C++, Kotlin, HTML, CSS, R, Shell, XML

Technologies: React.js, React Native, Django, Django REST, Flask, Express.js, Bootstrap, Node.js, Fast API, AWS, Azure, Github Actions, Postgresql, MongoDB, TypeScript, Jest, Pytest, Git, Docker, Jenkins