

# ADITYA GOYAL

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## EDUCATION

### University of Toronto

Honours Bachelor of Science in Computer Science

Toronto, ON

June 2024

- **Relevant Courses:** Data Structures and Algorithms, Operating System, Software Design, Software Tools and Systems Programming, Programming on the Web, Neural Networks and Deep Learning.

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, SQL, JavaScript.

**Backend Systems:** Flask, Django, Spring Boot, Node/Express, Distributed Systems, REST APIs, Asynchronous Workflows (Kafka/RabbitMQ).

**Frontend:** React, Redux, Next.js, Zustand, Django, Flask, React Native.

**Database State:** PostgreSQL, MongoDB, Redis, Data Modeling.

**Tools DevOps:** AWS (S3, Lambda, EC2), AI Productivity (Cursor), Docker, CI/CD (TravisCI), Observability (Sentry/Logs/Metrics).

**Testing:** JUnit, TDD, Unit Testing, Integration Testing, Automated Testing, Selenium.

## EXPERIENCE

### Full Stack Web Developer

Aug 2024 – Dec 2025

Apex Pharma Logistics - International B2B Pharmaceuticals & Reagents supplier

Remote

- Designed and developed 3 internal **microservices** using Java, **Spring Boot** to support inventory tracking, order tracking, and automated invoice generation (Spring Batch for batch processing) for clients.
- Developed and integrated reusable **React** components with efficient state management using React Hooks and Context API, improving UI responsiveness and reducing re-renders by **25%** for high-traffic pages.
- Optimized frontend load performance by configuring **Webpack** for tree shaking, code splitting, and minification, and fine-tuning **Babel** browser targets, reducing page load time by 30% (Chrome Lighthouse audits).

### Developer - 16 month co-op

May 2021 – Aug 2022

Edsembli Inc. - Education Management Software

Toronto, ON

- Optimized **backend services** by implementing efficient API endpoints with Node.js and TypeScript, improving query performance by 8–10% and supporting scalable deployments.
- Enhanced frontend performance by refactoring **state management** from prop-drilling to Zustand + Context API, reducing unnecessary re-renders and improving load times for high-traffic dashboards by 20% (**React Profiler**).
- Owned regression **test platform** end-to-end through plan, design, implement, test, deploy, monitor; reduced cycle time from **days to under 5 minutes** via CI regression suite - Java + Selenium.

### Web Development Research Assistant

Oct 2020 – Feb 2021

Department of Computer Science, University of Toronto

Toronto, ON

- Built a greenfield project to facilitate \$0 fee international money transfer using JavaScript (**MERN stack**).
- Exposed server routes using Express.js for communication between frontend and backend using **REST API**.
- Stored users and related information on **MongoDB Atlas** as non-relational data to ensure scalability.

### President

May 2022 – Apr 2023

Computer Science Student Union, University of Toronto

Toronto, ON

- Headed the Computer Science course union representing over **4,000 students** at the University of Toronto to ensure their governance.

## PROJECTS

### AI Marketplace App - Hackathon Winner | Python, Flask, React Native, MongoDB

- Developed and deployed a **full-stack app** using React Native, Python, MongoDB supporting data discovery and artifact sharing, integrating computer vision for analytics.
- Connected an object detection algorithm utilizing Google Cloud Vision API for customers to self-checkout.
- Integrated Owncast streaming API to connect customers with store staff for physical contact free support.

### House Finder | Python, Django, Google Maps API

- Engineered a **full stack web app** using Python (Django) to help connect renters with landlords for housing.
- Integrated an interactive map with location of each house using Google Maps API to enhance user comprehension.