

# Aditya Patel

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## EDUCATION

### Toronto Metropolitan University

*Bachelor of Science (Hons.), Computer Science (Co-op)*

Sep. 2021 – Dec. 2025

*Toronto, Ontario, Canada*

- **Relevant Courses:** Data Structures, Unix, C & C++, Operating Systems, Probability and Statistics
- **Certifications:** Supervised Machine Learning, by **Stanford Online & DeepLearning** ([Certificate](#))

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, JavaScript, TypeScript, SQL (Postgres, MySQL), HTML/CSS, Shell Scripting, Rust

**Frameworks:** ASP.NET, React.js, Node.js, Next.js, Vue.js, Django, Flask, jQuery, Jupyter, Wordpress, TailWind CSS

**Tools:** Docker, Git, Kubernetes, Apache Airflow, Elasticsearch, GitHub Actions, Kafka, Linux, Jenkins, NumPy, Postman, Spark

## EXPERIENCE

### Software Developer Intern (Co-op)

*Royal Bank of Canada - Innovation and Technology*

May 2023 - **Present**

*Toronto, Ontario, Canada*

- Engineered GitHub Actions CI/CD Pipeline Log Parsing System with AWS S3, PostgreSQL, Apache Kafka, Apache Spark, and Python3. Streamlined collection, storage, and analysis of logs, yielding actionable DevOps Pipeline insights
- Developed Full Stack Dashboards (Jira Story Lead-time Metrics), leveraging Django and Elasticsearch for back-end API. Utilized React.js and Typescript to create a highly detailed frontend, empowering teams with actionable DevOps insights and enhancing story completion productivity by 32%
- Built scalable Python DAGs for automating Jenkins builds, data retrieval, and insertion into Elasticsearch. Leveraged Apache Airflow for scheduled data collection, optimizing processes via RBC's Helios pipeline, yielding 82% efficiency gain
- Created Python API, leveraging GitHub Secret Scanning, to automate scanning, alerting and rectifying hard-coded passwords in code across Enterprise GitHub, eliminating security risks at RBC, with over 80000 vulnerabilities revoked

### Trade Floor Web Developer Intern

*Scotiabank - Global Banking and Markets*

May 2022 – Sep. 2022

*Toronto, Ontario, Canada*

- Engineered an advanced JSON to Excel conversion web application for automating secure and efficient Trade Logging, achieving 27% faster conversion than MSFT API, alongside multi-threaded computations, varying depth parsing and robust security features making it an integral tool for the capital markets trading team
- Created a File Validation tool using React.js, ASP.NET and C# algorithms, enabling efficient validation of Excel and CSV files with customizable configurations, empowering users to identify and resolve bulk data issues swiftly
- Built a Full Stack Email Communication Archive tool using ASP.NET, C#, jQuery etc, to store and manage Scotiabank's internal communication emails, with search, filter and attachment handling capabilities, accommodating over 100,000 emails and deployed internally across the bank
- Collaborated on a back-end C# API, SSH-File-Transfer, leveraging SCP and SFTP protocols, facilitating encrypted file transfer between remote UNIX servers and achieving a significant 38% acceleration in processing rates

### Software Engineer

*IEEE Toronto Metropolitan University*

Aug. 2022 – Feb. 2023

*Toronto, Ontario, Canada*

- Revamped, designed and maintained IEEE TMU online systems. Successfully led domain and server migrations
- Organized events like Industry night etc., attended by more than 200 students and industry professionals from leading tech companies and start-ups. Communicated with TMU Engineering Faculty, regarding event finances

### Software Developer (Part-Time)

*Enactus Toronto Metropolitan University*

Oct. 2021 – Feb. 2022

*Toronto, Ontario, Canada*

- Conceptualized and architected web applications for an e-commerce start-up incubated by Enactus-TMU DMZ, utilizing Webflow, prototyped in Figma and leveraged SQLite3 database
- Clarified technical concepts and demystified complex processes to facilitate understanding among stakeholders

## PROJECTS

**DeskGenius** ([deskgenius.vercel.app](#)) | *Next.js, React.js, Three.js, Tailwind CSS, JavaScript*

May 2023

- 3D Rendering Engine, using Next.js and Three-Fiber, for visualizing table arrangements before purchasing
- Utilizes graphic ray tracing, texture mapping and advanced algorithms to optimize rendering performance & reduce computational overhead, resulting in a highly responsive and immersive user experience, all 100% free of charge

**PetroForecast** ([GitHub](#)) | *Python, React.js, SQLite3, FastAPI, Jupyter Notebook, Docker*

May 2023

- Full Stack Machine Learning Application to predict and analyze US heating oil futures
- Utilizes Prophet library for time-series regression and containerised using docker-compose for easy installation