

# Aditya Patel

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[aditya-patel.com](https://aditya-patel.com)

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, C#, JavaScript, SQL (Postgres, MS SQL), HTML/CSS, Shell Scripting, Lisp  
**Frameworks:** ASP.NET, React.js, Node.js, Next.js, Django, jQuery, Jupyter, WordPress, TailWind CSS  
**Developer Tools:** Elasticsearch, Docker, Git, Jenkins, Apache Airflow, Postman, Linux, Vercel, Kubernetes, NumPy

## EXPERIENCE

### Software Developer Intern (Co-op)

May 2023 - Present

ROYAL BANK OF CANADA

Toronto, ON

- Engineered a scalable Python DAG, that automates Jenkins build triggering, data retrieval, and inserting processed data into Elasticsearch. Automated scheduled data collection with Apache Airflow and deployed on the cloud using RBC's Helios pipeline, achieving more than 82% efficiency boost
- Developed dashboards (Jira Story Lead-time Metrics), leveraging Django for the back-end API to collect and process data from Elasticsearch. Utilized React.js and Typescript to create a highly detailed frontend dashboard, empowering teams with actionable DevOps insights and enhancing story completion productivity by 32%
- Created Python API, leveraging GitHub Secret Scanning, to automate scanning and rectifying hard-coded passwords in code across Enterprise GitHub, eliminating security risks at RBC, with over 8000 vulnerabilities revoked

### Trade Floor Web Developer Intern

May 2022 – Sep. 2022

SCOTIABANK

Toronto, ON

- Engineered an advanced JSON to Excel conversion web application for 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

Aug. 2022 – Feb. 2023

IEEE - Toronto Metropolitan University

Toronto, ON

- 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

Oct. 2021 – Feb. 2022

ENACTUS - Toronto Metropolitan University

Toronto, ON

- Conceptualized and architected web applications for an e-commerce start-up incubated by Enactus-TMU, 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](https://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](https://github.com)) | *Python, React.js, SQLite3, FastAPI, Jupyter Notebook*

May 2023

- Full Stack Machine Learning Application to predict and analyze US heating oil futures

## EDUCATION

Toronto Metropolitan University

Sep. 2021 – May 2026

Bachelor of Science (Honours), Computer Science (Co-op Education)

Toronto, ON

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