Aditya Patel

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TECHNICAL SKILLS

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

EXPERIENCE

Software Developer Intern (Co-op)   May 2023 - **May 2024**
ROYAL BANK OF CANADA - Innovation and Technology   *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, alerting and rectifying hard-coded passwords in code across Enterprise GitHub, eliminating security risks at RBC, with over 80000 vulnerabilities revoked
- Currently working on data migrations for Helios deployment platform as we migrate from Jenkins to GitHub Actions

Trade Floor Web Developer Intern   May 2022 – Sep. 2022
SCOTIABANK - Global Banking and Markets   *Toronto, ON*
- 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   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) | *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

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)