Rajat Patwari

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SKILLS

Languages: TypeScript / JavaScript, Python, Rust, C#, C / C++, Kotlin, Java
Tools: React.js, Django, Expo / React Native, ASP.NET Core, Docker, PostgreSQL, AWS, Nest.js / Express.js, Terraform

EXPERIENCE

Mobile Developer Co-op / Intern
Sep 2024 – Dec 2024
Stealth Startup | New York City, NY - Remote

- Implemented a flow for users to select add-ons as purchase customization options in order to **increase average transaction revenue** in the **Expo / React Native** mobile application.
- Consolidated logging logic between monitoring and analytics platforms to improve issue detection efficiency.

Full Stack Developer Co-op / Intern
Jan 2024 – Apr 2024
Texada Software | Mississauga, ON

- Supported the migration of a legacy web application to **Django + React.js** providing developer productivity enhancements and improving responsiveness by approximately **200 milliseconds**.
- Increased total unit and integration test coverage for the entire full stack application from **75%** to **84%**, improving the accuracy and validity of the code base.

Full Stack / Infrastructure Developer Co-op / Intern
May 2023 – Aug 2023
Get ResQ | Toronto, ON

- Developed a seed environment with ordered randomized data, **improving operational efficiency** during setup for product pitches, demos and advertisements.
- Released a customer-facing analytics feature for tracking B2B spending using **Django + React.js** and **React Native** allowing **5,000+ customers** to reduce capital and operational expenses.

Full Stack Developer Co-op / Intern
Sep 2022 – Dec 2022
Borrowell | Toronto, ON

- Implemented a new customer payment plan feature in **Angular + ASP.NET Core** which increased product revenue by **up to 10%** on average across all plans.
- Streamlined customer experience by automating pre-authorized debit transactions, resulting in time savings for the Customer Service team and reducing processing times for customers by **up to 24 hours**.

Backend Developer Co-op / Intern
Jan 2022 – Apr 2022
Crescendo Technology | Toronto, ON

- Designed and implemented an automated pipeline service in **.NET Core** utilizing **gRPC Protobuf** which archived up to **15,000 user records per second** from **MongoDB** to **Google Cloud BigQuery** based on configurable parameters.

Full Stack Developer Co-op / Intern
May 2021 – Aug 2021
Texada Software – Uptake Canada | Mississauga, ON

- Enhanced REST endpoints in a **Nest.js / Express.js** backend to control access, fix timeouts and prevent data loss.

PROJECTS

Operating System - Samudra [https://github.com/patwarir/samudra-os]
Sep 2023

- Created an operating system for **RISC-V** computers in **Rust** that allows kernel **WebAssembly** modules.

Programming Language - Vertex [https://github.com/patwarir/vertex-mirror]
Aug 2020

- Developed a new stack-based assembly language for a virtual machine implemented in **C#**.

EDUCATION

University of Waterloo
Sep 2020 – May 2025
Bachelor of Software Engineering (B.S.E.), Honours, Co-operative Program