

Patrick Santoso Lay

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ON, Canada (Open To Relocate)

EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)
Bachelor of Science, Computer Science

Sep 2020 – May 2024

TECHNICAL SKILLS

Coding Languages

- TypeScript
- JavaScript
- Python
- Java
- C++
- SQL
- HTML/ CSS

Framework & Libraries

- React, React Hooks
- Next.js
- TailwindCSS
- Spring Boot
- Node.js
- Express
- .NET/ C#
- RESTful Services

Database & Storage

- PostgreSQL
- MySQL
- Supabase
- Prisma ORM
- MongoDB
- Database Design
- Query Optimization

Cloud & DevOps

- AWS
- Docker
- GitHub Actions
- Infrastructure-as-Code
- Vercel

Tools

- Git
- Github
- Testing Automation
- Version Control
- Monitoring & Logging
- API Documentations

RELEVANT EXPERIENCE

Software Engineer – Armonia – Montreal, QC (Remote) · Sep 2024 – Dec 2024

- Delivered full-stack features for a **Software as a Service (SaaS) booking platform** by developing scalable **RESTful** services, optimizing **PostgreSQL** schemas and deploying modular **AWS** infrastructure, reducing delivery lead time by **15%**.
- Implemented **Infrastructure-as-Code (IaC)**, optimized database configurations and improved system throughput by **20%**, increasing system resilience and reducing deployment-related incidents by **~30%**.
- Built backend flows for **business/user onboarding**, configurable booking restrictions and **rule-driven validation**, improving booking reliability and reducing user errors by **20%**.
- Designed **API interfaces**, modular service boundaries and maintainable architecture patterns, reducing cross-service coupling and accelerating feature iteration velocity.
- Reduced deployment lead time by **50%** by implementing **CI/CD pipelines**, automated data validation and standardized testing workflows using **GitHub Actions** and **AWS**.
- Created standardized **environment scripts** and automated provisioning, reducing onboarding time for new engineers by **30%** and improving development consistency.
- Restored and stabilized a failing **build/deployment pipeline**, achieving **99% release stability** by diagnosing failures using GitHub Actions logs, TypeScript error traces, and PostgreSQL diagnostics.
- Improved team productivity by aligning technical priorities, defining clearer task scopes and collaborating with senior engineers and product managers, reducing requirement-clarification cycles by **25%**.
- Led cross-functional debugging sessions to resolve high-impact deployment and data-consistency issues, cutting incident resolution time by **~40%**.

PROJECTS

Kompak | Next.js, React, Supabase, TypeScript, Tailwind CSS · May 2025 – June 2025

- Built a **cloud-ready project management platform** with real-time syncing and scalable Supabase architecture, improving team task visibility by **~30%**.
- Implemented **drag-and-drop workflows (dnd-kit)**, editable modals, and **Supabase** Auth/Storage, increasing task-completion speed by **22%**.
- Developed a **responsive, accessible UI/UX** with **dark mode**, improving organization efficiency by **18%** and enhancing overall usability.

Eventure | *Toronto Tech Week Hackathon 2025* | Next.js, TypeScript, Tailwind CSS, Python, Supabase, PerplexityAI · June 2025

- Delivered the complete **front-end** for an **AI-powered event discovery app** integrating **LLM-based recommendations** and real-time filtering.
- Built a **responsive Next.js UI** optimized for speed under a 24-hour hackathon deadline.
- Integrated **Supabase storage** and **Python-based AI outputs**, ensuring high-consistency end-to-end data flow.

Jajan | React Native, Expo, SQLite, TypeScript · June 2025 – July 2025

- Built an **offline-first mobile expense tracker** using SQLite, local caching, and optimized data persistence, reducing load times by **35%**.
- Designed a **clean, intuitive mobile interface** inspired by Indonesian jajan culture, improving user flow and reducing interaction friction.
- Implemented **calendar-based logging**, **emoji tagging**, and modal-driven entry workflows, improving expense-entry speed by **27%** and enhancing overall usability.

OnTrack | Node.js, React.js, Express.js, JQuery , JavaScript Oracle DB · June 2025 – July 2025

- Developed the **interactive calendar interface** and core UI/UX for a task-tracking platform used by an 11-person engineering team, reducing planning friction.
- Built responsive front-end components for tasks, priorities, and progress tracking; integrated cleanly with backend **REST APIs**.
- Improved navigation and workflow fluidity, contributing to a **20%** improvement in planning efficiency.