Patrick Santoso Lay

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SKILLS

Languages: TypeScript, JavaScript, Python, Java, C, C#, Lisp, HTML, CSS, Unix, Bash, MySQL, Prolog, PostgreSQL, Elixir
Technologies: Next.js, React.js, React Native, AWS, Supabase, OAuth, Pandas, scikit-learn, NumPy, matplotlib, PostgreSQL, MySQL, Docker
Tools: Github, Jira, Excel, Word, Agile

EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)   *Sep 2020 - May 2024*
B.S. in Computer Science
Member: TMU Indonesian Student Association, TMU E-Sports

EXPERIENCE

Armonía (www.armoniaservices.com)   **Montreal, Québec (Remote)**
Software Engineer | Next.js, TypeScript, React.js, Tailwind, PostgreSQL, AWS   *Sep 2024 - Dec 2024*
- **Developed** full-stack features on a **cloud-based online booking platform** using **Next.js, PostgreSQL** and **AWS**, improving feature delivery by **15%**.
- **Optimized** system reliability by reducing **database write latency** by **20%**, ensuring consistent uptime and **data flow integrity**.
- **Designed** backend service logic with **infrastructure-as-code** mindset, improving **resilience** and **observability** of business features.
- **Collaborated** with developers and product team to **automate feature testing** and deployment via **CI/CD pipelines**.

PROJECTS

"On Track" Task Manager Web App | Node.js, React.js, Express.js, jQuery, Oracle DB
- **Built** a task management web app for engineering and CS students, reducing planning time by **20%** and task overhead by **30%**.
- **Implemented** shared calendars, **progress tracking**, and **priority features** using React and real-time syncing.
- **Led** sprint **planning**, **improved UX** through user testing, and streamlined team collaboration across dev roles.

Kompak | Next.js, React, Supabase, TypeScript, Tailwind CSS
- **Developed** a Jira-style **project management app** with real-time board and task tracking, **reducing planning friction** for student teams.
- **Integrated drag-and-drop functionality** with @dnd-kit, editable modals and **Supabase auth/storage.**
- **Improved UX** with responsive UI, dark mode, and intuitive task flows boosting task **organization speed** by **30%** in user testing.

Eventure | *Toronto Tech Week Hackathon 2025* | Next.js, TypeScript, Tailwind CSS, Python, Supabase, OpenAI
- **Built** a task management web app for engineering and CS students, reducing planning time by **20%** and task overhead by **30%**.
- **Implemented** shared calendars, **progress tracking**, and **priority features** using React and real-time syncing.
- **Led** sprint **planning**, **improved UX** through user testing, and streamlined team collaboration across dev roles.

Jajan | React Native, Expo, SQLite, TypeScript
- **Designed** and built a personal **expense-tracking** mobile app inspired by Indonesian "jajan" culture to **improve financial accountability**.
- **Implemented calendar-based** daily expense logging, **emoji-based category selection** and intuitive **modals** for adding and editing entries.
- **Developed** local **database storage** with **SQLite** for offline-first support, ensuring reliable expense history even without connectivity.
- **Enhanced** UI with smooth **scrollable lists**, **date selection** and an **intuitive user-friendly** interface for everyday use.

PERSONAL INTERESTS AND HOBBIES

Photography	Gaming	Travelling
Food	Coffee	Music
Pokemon	Lifting Weights	Cinematography
PC Building	Fashion	Cooking

RELEVANT COURSES

Computer Science I – Python	Algorithms	Operating Systems I
Computer Science II – Java	Probability and Statistics I	Data Structures
Computer Science II – Java	Data Mining	Introduction to C and UNIX
Computer Security	Data Science	Artificial Intelligence I
Software Tools for Startups	Discrete Structures	Artificial Intelligence II