

Patrick Santoso Lay

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WORK EXPERIENCES

Software Engineer | Armonía (www.armoniaservices.com)

Sep 2024 - Dec 2024

Next.js | TypeScript | React.js | Tailwind | PostgreSQL | AWS

- **Contributed to the successful MVP launch** of their **online booking management platform** by developing both **front-end and back-end functionalities**, reducing feature delivery time by **15%**
- **Optimized data storage processes** by implementing features for **saving and synchronizing business hours** entered on the listing page, **reducing database write latency by 20%** and ensuring **seamless updates** on the business dashboard
- **Achieved a 25% reduction in data retrieval latency** by **optimizing processes** for storing inputted data and retrieving it for dashboard presentation, **taking ownership of the data flow between front-end and back-end systems**
- **Collaborated with a cross-functional team** to enhance **service-related features**, including **designing and implementing database structures** to support service data and developing functionality to **save and enforce online booking rules**. Enabled business owners to **define booking restrictions**, ensuring seamless integration of user inputs and improving system functionality, boosting team productivity by **10%**

PROJECTS

“OnTrack” Task Manager Web App

Javascript | CSS | HTML - [Github](#)

- **Collaborated with a team of 11** to develop a web application for engineering and computer science students, reducing task management overhead by **30%** through seamless integration of features.
- **Integrated** features like shared calendars, progress tracking, and priority assignment
- **Fostered** teamwork and academic success, empowering students to navigate academic complexities efficiently while cutting project planning time by **20%**

Web Developments Projects

Javascript | CSS | HTML | PHP | Perl | Ruby | Python | SQL - [Github](#)

- **Designed, created and hosted** 10 webpages, each excelling in design, animation, form filling, data management, and cookie management
- **Enhanced** the flexibility and performance of the webpages by **20%**, employing a diverse array of technologies to expand my experience in web development

Card Game War

Elixir - [Github](#)

- **Developed** complex, strategic and engaging two-player card game
- Introduces the concept of "War" for tie-breakers, adding excitement
- **Made** it accessible for players of all levels due to it's quick setup and easy-to-understand rules

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C#, HTML5, CSS, SQL, Bash

Developer Tools: Git, Github, Docker, Linux, Bash, VS Code, Jira

Databases: MongoDB, PostgreSQL, MySQL, Oracle

Libraries/Framework: Next.js, Node.js, Express.js, React.js, React Native, Django, Pandas, OAuth, Agile

EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON

Bachelor of Science in Computer Science

Aug 2020 - June 2024

EXTRACURRICULAR ACTIVITIES

Toronto Metropolitan University Indonesian Student Association

Aug 2023 - April 2024

Marketing Associate

Toronto TeamFight Tactics

Aug 2023 - June 2024

Tournament Organizer & Event Manager