

# Waron Limsakul

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## SKILLS

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- TypeScript, JavaScript, Go, Python, SQL, C/C++, Rust
- React.js, Next.js, Redux, Tailwind CSS, HTML/CSS, HTMX
- Node.js, Elysia.js, Express.js, Nest.js, Django, Echo
- Apache Spark, Databricks, Metabase, AWS, GCP, Firebase, MongoDB, PostgreSQL, SQLite
- Git, GitHub Actions, GitLab CI/CD, Docker, Jest, Postman, Bruno

## EDUCATION

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### University of Waterloo

Waterloo, ON

Honours Computer Science, Co-operative program

Expected Graduation, April 2029

- **Scholarships:** CAD \$27,000 (University of Waterloo President's Scholarship of Distinction, Faculty of Mathematics Global Scholarship)

## EXPERIENCE

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### Software Engineer

May 2025 – August 2025

Urban Mobility Tech Co. Ltd.

- Architected centralized ad-service microservice using **Elysia.js** and **Bun** to manage all in-app advertisements, expanding from **5 to 20+ endpoints** and handling **120K+ daily requests**.
- Engineered full-stack internal console with **Next.js** and **Ant Design** to eliminate developer dependency for ad operations, reducing campaign deployment time from **2 weeks to 5 minutes** and managing **100+ campaigns**.
- Implemented automated ETL pipeline using **Apache Spark** and **Databricks** to process **200K+ daily ad engagement records**, establishing comprehensive data infrastructure with **daily batch processing**.
- Developed comprehensive ads performance dashboard in **Metabase** with custom **SQL queries** to deliver real-time campaign analytics, enabling data-driven decisions for business team.
- Consolidated ad-related data from **4 disparate MongoDB collections** into unified service architecture, implementing **singleton pattern** for database connections to achieve **sub-50ms API response times**.

### Full-Stack Developer

July 2024 – October 2024

Bangkok Youth Opera

- Developed responsive React.js interface and architected Node.js backend, **supporting 200K+ requests/hour**
- Integrated PostgreSQL database management and used **Omise API** to achieve Thai QR payment system

## PROJECTS

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### Simply Said | [Visit Site](#) | *Next.js, MongoDB, Tailwind CSS, React.js*

Dec 2024 – Jan 2025

- Developed a User-generated content platform using Next.js, boosting SEO and **achieving 10 users per day**
- Implemented secure OAuth authentication with the Auth.js library, **increasing registered users by 43%**
- Built a robust and scalable back-end system by integrating MongoDB with Next.js, **achieving 99.9% uptime**
- Utilized dynamic programming algorithm to manually implement a custom Fuzzy Finder, enabling efficient and user-friendly search functionality which **reduces search time by 75%**
- Implemented a lightweight real-time Markdown Parser from scratch using regular expression, **achieving 83.3% compatibility with core Markdown syntax** and improving posting experience

### Driven | [Visit Site](#) | *Go, PostgreSQL, TailwindCSS, Templ, HTMX*

March 2025 – April 2025

- Built a SSR to-do app to track focus time and tasks using Go and Templ, **rendering a full page in 150ms**
- Implemented access/refresh tokens auth system, **increasing session stability by 100%**
- Optimized Go HTTP server to enable server scalability, **capable of handling 3M+ requests/hour**
- Design responsive UI with HTMX, **achieving dynamic interactivity with 70% less code**
- Utilized Github actions to enable CI/CD workflows, **reducing feature delivery time by 50%**

### RonDB | [Visit Source Code](#) | *C, SQLite*

April 2025

- Built a zero-dependency SQL-like database engine in C from scratch, featuring a custom B+ tree that **enables 500GB+ data access with 4 disk fetches**