Nutchanon Taechasuk / Quatton

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Education

University of Tokyo, Tokyo, Japan   2022 Mar - 2026 Mar (Expected)

3rd Year Undergraduate Student, Department of Information Science, Faculty of Science (MEXT Scholarship)

Actively Used Technologies & Languages

- **Programming Languages:** TypeScript, JavaScript, Rust, Python, Dart, C, OCaml
- **Actively Used Technologies:** Next.js, Vue.js, React, TailwindCSS, PostgreSQL, PyTorch, Bevy, Django
- **Tools & Platforms:** Supabase, Git, Docker, Pulumi, AWS (S3, ECS, Lambda), Vercel, Cloudflare
- **Languages:** English (Business), Japanese (Business), Thai (Native)

Work Experience

Mantra Inc., Japan   2024 Aug - 2024 Sep

Web Engineer Intern – (Vue.js, GraphQL, Django, MySQL) [Final Presentation]

Main Responsibilities: Developing new features, refactoring legacy code, quality assurance and fixing bugs based on the feedback from users and other team members

- Implemented a new feature for managing user roles and permissions in group, reducing the number of time to manually onboard new N users from $O(N^2)$ to $O(N)$
- Refactored data fetching logic to use GraphQL composables instead of effect-based approach, allowing for better cache revalidation and error handling
- Introduced a security feature to archive a translated chapter to prevent changes from any user, reducing the risk of accidental data loss
- Documented a style guide, problem-solving strategies, and best practices for the team when completing the internship, to ensure the consistency and maintainability of the codebase
- Fixed critical bugs in the translation pipeline that caused GPT-4 to not generate any output, by updating the dependencies in the server-side code

Sasatech Co. Ltd., Japan   2023 Nov - 2024 Apr

Next.js Engineer Intern – (Next.js, React, TypeScript, Tailwind CSS, Supabase, Vercel)

Main Responsibilities: Building reusable components, standardizing the development process, and micro-optimization

- Pioneered a schema-agnostic, customizable foundation for building admin panels and CMS
  - Supported complex relations, dynamic form generation, and image uploads
  - Successfully deployed one project to production with over 1,000 rows of data and 15 tables
  - Saved 80% from estimated development time via dynamic routes and code generation scripts
- Automated synchronization of page view ranking using CRON jobs and Google Analytics API
- Implemented utility functions for data querying and mutations
  - Fixed rate-limiting issues via server-side caching, reducing API calls by over 90%
  - Supported complex nested filtering, sorting, and pagination for large datasets
  - Standardized access control for viewing public, private, and unlisted pages

Recent Projects

Memoiz – Search Engine for Personal Notes [Lablab.ai]   2023 Apr

Lablab.ai Build your AI Startup Hackathon. Episode 2: **Winner**

(Next.js, React, TypeScript, Tailwind CSS, Prisma, MySQL, Redis, Cohere, Vercel, tRPC)

- Led a team of two to develop a full-stack web application for organizing and searching personal notes in 7 days
- Explored cutting-edge AI technologies through implementing vector-based semantic search via Redis and Cohere
- Standarized data querying, validation, and mutation using end-to-end type-safe APIs