# Nutchanon Taechasuk / Quatton

I like new stuff and I make software development enjoyable and productive :)

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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, SQL
- **Actively Used Technologies:** Next.js, React, TailwindCSS, PostgreSQL, PyTorch, Bevy
- **Tools & Platforms:** Supabase, Git, Docker, Pulumi, AWS (S3, ECS, Lambda), Vercel, Cloudflare
- **Languages:** English (Business), Japanese (Business), Thai (Native)

## Work Experience

**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

**scrb – Next-gen Scribblenauts clone built with Bevy and cutting-edge ML models**    2024 Jun - Present

- Currently under development with Buildspace, an intensive 6-week idea-to-launch program
- Optimized the text-to-3d generation pipeline to generate game assets in sub 30 seconds
- Support over 30000+ color names and arbitrary size modifiers using a dynamically loaded Trie tree

**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
  - Reduced boilerplate code by 50% from initial REST-based implementation
  - Boosted DX and team productivity, contributing to the project's success under tight deadlines

**Refoodable – Unsold Food Redistribution Platform** [GitHub]                    2023 Feb - 2023 Jun
Google Solution Challenge 2023: **Top 100 Finalist** (Flutter, Firebase, Google Maps API)

- Led a team of four to design and develop a socially impactful mobile application in 2 months
- Augmented a type-safe layer for schemaless and dynamic data structure using class extensions
  - Reduced runtime errors and improved code readablity for members not familiar with NoSQL
- Utilizing a geohashing algorithm to filter nearby stores from over 100+ entries in real-time