

Nutchanon Taechasuk / Quatton

Email: atomicative@gmail.com

Tel: 080-3856-5554

GitHub: Quatton

X: @quattonbud

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 (Flutter), C++, OCaml
- **Frontend:** React, Vue.js, Next.js, Nuxt, TailwindCSS, Three.js, TanStack Query, TanStack Router
- **Server-side:** Node.js, Bun, FastAPI, Django, tRPC, Axum, Hono.js, Elysia.js, oRPC
- **Databases & Query Engine:** PostgreSQL, Turso, D1, Redis, Prisma, GraphQL, DrizzleORM
- **Cloud & DevOps:** AWS (S3, Cognito, Aurora, StepFunctions), Cloudflare, Vercel, Terraform, OpenAPI
- **Languages:** English (Business), Japanese (Business), Thai (Native)

Work Experience

Akari Inc., Japan

2025 Mar - Present (2025 June)

Software Engineer Intern (Next.js, Three.js, Chakra UI, PostgreSQL, S3, StepFunctions, Cognito, FastAPI, OpenAPI)

- Reduced GitHub Action time from 6 to 2 minutes by caching artifacts, saving 50+ hours monthly
- Cleared 90GB+ of unused S3 files by implementing Terraform lifecycle policies.
- Improved page load speed 8x by optimizing and consolidating API calls.

Mantra Inc., Japan

2024 Aug - 2024 Sep

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

- Developed a role management feature reducing onboarding new users from $O(N^2)$ to $O(N)$.
- Refactored data fetching with GraphQL composables for improved caching and error handling.
- Added a lock feature for translated chapters to prevent unauthorized edits.
- Documented a style guide and best practices for maintainability.

Recent Projects

scrib – Next-gen Scribblenauts clone built with Bevy and TripoSR [GitHub]

2024 Apr - Present

- Optimized the text-to-3d generation pipeline to generate game assets in sub-30 seconds (**locally** on Apple M3)
- Support over 30000+ color names and arbitrary size modifiers using a dynamically loaded Trie tree

qcpu – Custom CPU Simulator & Assembler

2024 Oct - 2025 Mar

A Rust-based project that implements a specialized CPU simulator and assembler for a custom ISA. [GitHub]

- Implemented a cycle-accurate simulation with lower than 0.03% execution time prediction error
- Optimized the simulator to achieve over 300 MIPS with statistics collection and 500 MIPS without

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
- Standardized data querying, validation, and mutation using end-to-end type-safe APIs