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TECHNOLOGIES AND LANGUAGES

- **Languages:** Node.js, TypeScript, Go, Python, SQL, Rust (intermediate), C# (intermediate), Scala (intermediate), Bash (intermediate), Haskell (hobby), Lisp (hobby),
- **Frameworks:** ReactJS, NextJS, NestJS, SvelteJS, TailwindCSS, Flutter
- **Tools:** PostgreSQL, MongoDB, InfluxDB, Kafka, Git, Docker, Kubernetes, Helm, ArgoCD, Grafana, Prometheus, Zsh, GitHub Codespaces

EDUCATION

- **Bachelor of Engineering**, Chulalongkorn University, August 2023

WORK EXPERIENCE

2025-2026 | Metier (Thailand) Co., Ltd. | Software Engineer

- **SWC Whitelabel** - GitHub
 - Built a Rust-based source-code transformation tool using SWC to reduce repetitive hardcoded content replacement across multi-tenant websites.
 - Solved the problem of **preserving core website behavior while extracting brand-specific constants, copy, feature flags, and UI values** into typed generated whitelabel registries.
 - Handled real-world transformation risks such as *duplicate keys, invalid directives, unresolved imports, parser failures, and idempotency*.
 - Using a context-free grammar, LALRPOP, making whitelabel directives more reliable, flexible, and easier to extend.
 - Designed generated output to work around ES Module circular dependency issue by using lazy getter-based access instead of eagerly mapping raw values.
 - Ensured transformation quality through unit tests, integration tests, snapshot testing with insta, GitHub Actions, cargo test, and cargo clippy -- -D warnings.
- **Website SEO Checking Tool** - performance.metierthailand.com
 - Maintained and hardened a complex SEO checking platform powered by Puppeteer-driven website inspection and multiple Chrome extensions, debugging failure-prone browser automation flows across page loading, extension execution, and SEO data extraction.
 - Designed and developed a transaction-based execution flow to track analysis progress step-by-step, fail fast when any step broke, cancel dependent jobs safely, and automatically surface failure report through GitHub Issues.
 - Reverse-engineered third-party Chrome extension logic used to detect TikTok Pixel and Meta Pixel integrations, then reimplemented the detection mechanism directly inside the system to make analytics more controllable and maintainable.
 - Improved frontend usability across the SEO dashboard, refining report presentation, error states, and warning feedback so technical inspection results became clearer for users.
- **TTC Web & Mobile App** (Monorepo with React Native/Tamagui)
 - Developed production admin and back-office features by working deeply with open-source software, Genseki, applying advanced TypeScript to build schema-driven CRUD workflows for TTC's features using React, Prisma, Drizzle, Genseki, and Drizzlify.
 - Developed mobile application features for the first time through TTC's privilege, coupon, and customer points flows using React Native, Expo, TypeScript, and TSX, overcoming complex Tamagui UI state-management issues, resolving production-facing bugs, and initiating the customer points algorithm behind the user experience.
 - Learnt and applied Hono for backend development, extending coupon and privilege APIs across controllers, request/response schemas, and service-layer logic to support coupon, customer coupon, and privilege-related business flows using Hono, Node.js, TypeScript, and backend API modules.

2024-2025 | Trienpont International | Software Engineer

- In-house web application for project budget control across joint companies
 - Developed custom ESLint rules to parse react codebase ASTs, map 140+ useQuery usages into a page/component-to-endpoint dependency graph, and uncover redundant API calls that could be eliminated through better TanStack Query cache design.
- Engineered a role-level security system on top of TypeORM to enforce entity-level permissions across project contents, contracts, vendors, and budget-control resources.
- Developed a compile-time verified backend error-message contract using advanced TypeScript type programming, including infer, Conditional Types, and recursive types, to prevent invalid translation keys or missing interpolation arguments from reaching the frontend.
- Implemented project approval and payment-budget logic to ensure requested payments stayed within approved project budgets.

- Investigated and fixed a database connection leak affecting backend reliability.

2024 | Codustry (Thailand) Co., Ltd. | Software Developer

- **REDBLU: Fully-Automated Scrapper for Aggregate Feeding in Concrete Batching Plant with AI-Driven**
 - Use protobuf serialization to resolve MCU communication issues caused by serializing long-length JSON, preventing buffer overflow.
 - Develop and maintain a crane control interface using Svelte.js, with a strong understanding of the state publish-subscribe pattern and reactive programming.
 - Optimize a production build process to emit a smaller JavaScript chunk by custom Vite configuration, resulting in improved performance.
 - **Using Golang, create a blackbox system that guarantees an exceptionally low latency of less than 1 ms from MQTT to the influxDB with a small and consistent memory footprint. This system will record every component communication over the MQTT protocol to the influxDB.**
 - Develop a custom Grafana plugin to display complex bucket movement and crane activity based on blackbox data in order to assist robotic engineers in addressing and resolving issues with the MCU that controls the bucket's sling movement.
 - **Develop a real-time audio streaming service that consumes raw ALSA audio, converts it to Opus, and publishes it via the WebRTC/WHOP protocol using the Rust programming language from scratch.**
- [Government Project] Legacy React.js Codebase Experiences:
 - Address the problem with numerous large, coupled, and difficult-to-maintain source files by breaking them into distinct components and rendering them reusable in accordance with the clean code principle.
 - By employing my extensive TypeScript expertise, Resolved the any type issue in TypeScript by implementing concrete and, on occasion, generic types.
 - Utilize the memorized component technique to resolve page load performance issues caused by a significant number of primitive component re-renderings.
- [Government Project] Deep understanding of the fundamentals of PostgreSQL
 - **Resolve the legacy database design issue caused by storing large JSON data in a JSONB column in the table using database normalization.**
 - Tailor-made schema design that considers and optimizes the row size of each frequently-used table results in a smaller table size on disk and better use of PostgreSQL's page buffer.
 - Having a comprehensive understanding of the internal workings of PostgreSQL, query plans, materialized views, and stored procedures is beneficial in reducing the response time for specific APIs that necessitate aggregation over large geographic data.
 - Implement a comprehensive testing system that covers from the database level to the API level. Additionally, build a linter and style guide to facilitate the development of a consistent and easily maintainable test specification.

2023 | Cleverse Academy | Back-end Course Instructor

- Teach a group of participants around 20 to be an entry-level software developer.
- in the following topics:
 - Node.js, Typescript, HTTP protocol, object-oriented programming, software engineering practices.
 - SQL, relational database design, cryptography concept, network concept, containerization (Docker and Docker-Compose), GitHub actions.
- Learn to change your worldview from that of an experienced software engineer to that of an outsider who may know a little about software engineering and how to help them be able to code.
- **cd-compose-deployment - GitHub**
 - Built a Go-based deployment service to help teams of participants to be able to deploy Docker Compose services automatically without manually SSH-ing into servers or editing compose.yml by hand.
 - Solved the problem of unsafe manual deployment by turning image updates into an authenticated deployment workflow from GitHub Actions to CLI request to queued server-side execution.
 - Integrated with Docker Compose / Docker daemon behavior to apply selected service image updates, recreate containers using existing service configuration, and prune old images after successful deployments.
 - Designed deployment security around asymmetric verification using ECDSA public keys, JWT claims, request-body checksums, expiration windows, and JTI validation to reduce unauthorized or replayed deployment requests.
 - Handled operational reliability with priority-based queues, concurrency-safe deployment execution, WAL-backed event/access logs, skipped/failed/successful deployment records, and a dedicated TypeScript CLI package @cloud-bombard/deployment-cli for CI usage.

2021-2022 | Agoda Company Pte. Ltd. | Associate Software Engineer

- Utilizing Agile methodology in software development, encouraging reflection on past lessons, sharing team-gained experiences, and being open to new learning.
- Develop software and microservices using C#, React, TypeScript, and Scala.
- As-needed CI/CD makes old software continually deployable after the creation/approval/merging of MR.

COMMUNITY EXPERIENCE

6th Stupid Hackathon Thailand

2022

The unusual event that allowed developers to experiment with any technology without any serious business requirements.

- Discord Registration Bot developer. <https://discord.gg/f5AgMACyaB>
- Event's MC.

Hacktoberfest 2022

2022

A global event that encourages developers to exchange and contribute to open-source ideas, as well as an incubator for first-time open-source contributors.

- Hacktoberfest Museum Initiation. <https://github.com/creators Garten/hacktoberfest-museum>

React Meetup 2022

2022

Sharing insights and best practices with React developers in Thailand.

- Event's Co-MC. <https://www.facebook.com/devMasterSomeday>