

# T. Daranidarran

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## Experiences

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### Digital Ops-Tech Center, Digital and Intelligence Service — Singapore

Aug 2024 – Present

#### Forward Deployed Engineer — *Intelligence Analysis Tool*

- Built and shipped a **full-stack geospatial intelligence platform** from 0-to-production, significantly reducing analyst decision-making time by 80% through map-based spatial queries (*React, Leaflet, Shadcn, NestJS, TypeORM, Postgres*).
- Integrated **local LLM inference**, Qwen 3B, into the platform — engineered a structured prompting system to batch-summarise **up to 100 intelligence reports** per run, generating narrative outputs with visible reasoning traces for analysts.
- Replaced a **10-minute manual release process** with a **fully automated GitLab CI/CD pipeline** on self-hosted EKS runners — enforcing code quality gates (lint, SAST) and triggering zero-touch ECR builds and staging deployments on every merge to main branch (*GitLab CI, Kubernetes, AWS EKS, Helm*).

#### Full-Stack Software Engineer — *Ctrl+Alt+Defend*

- Reimagined a MCQ career quiz into **Ctrl+Alt+Defend** — a **multiplayer castle defence game** where each player's role (Builder, Artillery, Alchemist) directly maps to a real tech career (Cloud, Software, AI Engineer), designed to be **immediately relatable** for pre-university students exploring tech careers (*Claude Code, Next.js, Shadcn, Supabase, Postgres*).

#### Full-Stack Software Engineer — *Trackr*

- Rebuilt the **Bulk Permission Assignment** feature end-to-end on a live platform serving **200+ personnel** — refactored backend with deconfliction logic to handle already-assigned permissions, reducing erroneous state writes and friction from a high-frequency admin workflow (*React, NestJS, TypeORM, Postgres*).
- Implemented a **cross-organisation activity history** feature surfacing a user's complete attendance record across all units they had belonged to — resolving a blind spot where admins could not accurately explain a transferred user's eligibility status.
- Identified and fixed a **silent data correctness bug** affecting **~4,000 users daily** — implemented a scheduled cron job to recompute stale eligibility metrics and optimised underlying queries with **EXPLAIN ANALYZE** to ensure performance at scale.

### 99.co — Singapore

Nov 2022 – May 2023

#### Software Engineer Intern — *Leads Generation Team*

- Designed and implemented **batching and prioritisation algorithms** to expand the callable lead pool by **80%** and re-rank leads by conversion likelihood — resulting in a **2% call-to-lead improvement (4x the 0.5% industry benchmark)** (*Python, Google App Script, Sheets*) — [Case Study](#).
- Built a lead distribution automation and agent-mapping system that **saved 45 mins/day** for the team lead and **improved lead-to-agent matching by 5%**; reimagined telemarketer call sheets after conducting user research.

## Projects

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### Trade OCH Items — *Website*

Jul 2025 – Sep 2025

- Designed and shipped a **production P2P trading dApp** solo — trustless escrow contract handling native game token swaps with a **5% protocol fee**, live and serving the Onchain Heroes community (*Next.js, Solidity, Wagmi, Supabase, OpenZeppelin*).
- Architected an **on-chain event indexer** that streams contract events and persists trade state to Supabase in real time, enabling efficient match queries without manual coordination.

## Education

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### Master of Science, Blockchain

Aug 2024 – Feb 2026

Nanyang Technological University (NTU) — Singapore

### Bachelor of Engineering, Computer Engineering

Aug 2020 – Jun 2024

Nanyang Technological University (NTU) — Singapore

## Skills

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**Programming:** TypeScript, JavaScript, Python, HTML/CSS, C/C++, Java, Solidity

**Frontend:** React, Next.js, React Native, TailwindCSS, Shadcn, Leaflet

**Backend/Infra:** NestJS, PostGIS, TypeORM, Postgres, Docker, AWS EKS, Kubernetes, Helm, GitLab CI