

SEE TOH JIN WEI

+65 9649 2207 | seetohjinwei@gmail.com | Singapore
github.com/seetohjinwei | jinwei.dev | linkedin.com/in/seetohjinwei

WORK EXPERIENCE

Backend Engineer Intern (Cloud Infrastructure), TikTok

Jan 2024 to May 2024

- Worked on an API gateway that unifies and abstracts different cloud provider interfaces.
 - Added 30+ endpoints and a cronjob for periodically updating a Redis cache.
 - Automated web scraping process enhanced with code generation, eliminating human error, and reducing time taken from days to minutes.
 - Developed a JSON type conversion utility package to support easier translation between various types.
- Built a set of 5 tools to automate workflows for detecting and upgrading outdated cloud instances.

Skills: Go, Cloud Infrastructure, Hertz HTTP Framework, Redis, MySQL, GORM (SQL ORM)

Full Stack Engineer Intern (Risk), Cinch

Feb 2023 to Aug 2023

- Primarily developed and maintained 4 backend microservices (orders, assets, data, logging).
- Integrated internal backend services with Samsung Knox Guard and other 3rd party services (Stripe, DataCultr, Slack) for automated risk management workflows.
- Developed and upgraded multiple frontend dashboards for internal super-admin use.
- Utilised various AWS services (Lambda, ECS, API Gateway, EventBridge) and set-up CI / CD deployments.

Skills: Python, FastAPI, TypeScript, Next.js, React, Amazon AWS, MySQL, Alembic, DevOps

Undergraduate Tutor, National University of Singapore

Various Semesters

- CS2103T Software Engineering (Fall 2023): Tutored 10 students, conducted weekly tutorials.
- CS2040S Data Structures and Algorithms (Spring 2023): Tutored 15 students, conducted weekly tutorials, graded weekly problem sets, assisted in preparation of teaching materials.

EDUCATION

National University of Singapore

Aug 2021 to Dec 2024

- Bachelor of Computing in Computer Science (Focus Areas in Database Systems and Parallel Computing)
- Grade Point Average: 4.75 / 5.00

PROJECTS

OrgaNiUS | Go, Gin, Gorilla WebSocket, React, TypeScript, MongoDB, Docker

- Developed a full-stack application for group work forming and management.
- Live Application: <https://organius.jinwei.dev>; Repository: <https://github.com/OrgaNiUS/OrgaNiUS/>

WATcher | Tech Stack: Angular, TypeScript, GraphQL

- Made major contributions to an open-source project for educators to monitor software projects easily.
- Sped up the data fetching service, reducing first contentful paint from minutes to seconds.
- Made improvements to the user interface to improve visual clarity and user experience.
- Repository: <https://github.com/catcher-org/WATcher>

My other projects can be found at <https://jinwei.dev/projects>.

TECHNICAL SKILLS

Languages and related: Go | Python | TypeScript / JavaScript | SQL (PostgreSQL, MySQL, CitusDB) | NoSQL (MongoDB, Redis, Cassandra) | C++ | Linux Shell (Bash)

Libraries, Frameworks, Tools: Hertz | FastAPI | Git / GitHub | Amazon AWS | React | Next.js | Pandas | Angular | GitHub Actions | Docker