

BACKEND ENGINEER · CONCURRENT AND DISTRIBUTED SYSTEMS · PROGRAMMING LANGUAGES

12 College Ave West, Singapore 138610

□+65 8892 2551 | ■ me@sewenthy.dev | ♠ sewenthy.dev | □ sewenthy | □ sthy | CAP. 4.59/5.00

WORK EXPERIENCE

Ahrefs Singapore

Backend Intern Oct. 2022 - Present

- Maintained and implemented new features for monorobt which allows for richer control over notifications from monorepos to slack.
- Rewritten internal orchestration tool from Javascript and bash into OCaml improving its concurrency guarantees, maintainability, and reliability.
- Heavily engaged with code reviews to produce clean code which significantly increase maintainability.

Credit Suisse Singapore

APAC TECHNOLOGY AND CHANGE SUMMER ANALYST (DEVELOPER EXPERIENCE TEAM)

May. 2022 - Jul. 2022

- Built long-running compliance checking services in Golang Gin that can recover easily to give peace of mind and help to prevent legal actions.
- Heavily practiced test-driven development (TDD) to significantly increase maintainability and development speed by incorporating at least 95% coverage for each Go package in the services using unit tests.
- Designed and maintained a full suite of integrated tests for a variety of scenarios ensuring all critical failures in our GitLab ecosystem are caught early and built many utilities for faster future tests development.

ByteDance Singapore

BACKEND ENGINEER INTERN, TECHNICAL ARCHITECTURE (MESSAGE QUEUE TEAM)

Jan. 2022 - May. 2022

- Enriched company wiki to ensure newcomers take less time getting up to speed on the system.
- Designed and built low-level long-running test services in Java that can recover easily so integration test cases are always up to ensure critical system bugs are caught in early stages and prevent catastrophic failures.

BeLive Technology Singapore

FULL-STACK DEVELOPER Jan. 2021 - Dec. 2021

- Full-stack development for analytics dashboard of streaming solutions that provide concrete feedback and drive business strategies for their live-streaming solutions.
- Developed multi-threaded backends in different lightweight frameworks (Python Flask, C++ Crow) to provide highly available, and responsive service.
- Facilitated seamless DevOps using Docker with Nginx that improved team backend reliability and portability to AWS and Google Cloud.

Yale-NUS College Singapore

PEER TUTOR Jan. 2021 - Dec. 2021

 Peer tutor for YSC1212 Introduction to Computer Science and YSC3236 Functional Programming and Proving. Helped each CS students with their personal approach which improve their understanding and write detailed reports about each session.

NUS, Faculty of Engineering

RESEARCH ASSISTANT

Singapore

• Designed and setup data pipeline for processing with HPC and communicate effective team guidelines to improve productivity.

Work with geo-spatial data to create models that can accurately predict port boundaries to increase team's capabilities to study GHG emissions
and further advice government policy-making.

Edelman Singapore

DXI (PREDICTIVE INTELLIGENCE) INTERN

Jun. 2020 - Jul. 2020

Aug. 2020 - Jan. 2021

• Ran EDA to inform better feature selection and engineering using NLP techniques which increased the effectiveness of the baseline model allowing thought leadership opportunity that drives business strategies. Assisted in a variety of projects in different industries including financial, and pharmaceuticals.

Yale-NUS College Singapore

COMPUTATIONAL BIOLOGY RESEARCH ASSISTANT

Aug. 2019 - Dec. 2021

- Developed new functions to optimize linear programming processes and for better user experience through control over such processes. Migrated the software from Python 2.7 to Python 3.4 with detailed commits using GitHub.
- Maintained and managed intranet VMs for running models and helped with IDM for new students. Train new student developers in best practices and help build and project-manage for new feature developments for the scobra library.

EDUCATION

Yale-NUS College Singapore

B.S. (Hons) in Mathematical, Computational, and Statistical Science focusing on Computer Sciences

Aug. 2019 - May. 2023

 Advance coursework in concurrency and program language design and implementations with a capstone about writing the "Extract to function" refactoring for Rust.

November 27, 2022 Sewen Thy