

EXPERIENCE

Google

May – Aug 2021

Software Engineering Intern

- Independently implemented new frontend design for offers in **Google Pay** with the aim of improving feature discovery and click-through rate, while adhering to strict coding conventions and passing rigorous code reviews.
- Compiled effective design documents, refactored existing code efficiently, and wrote tests with 100% coverage.
- Proactively sought input and anticipated potential problems while collaborating in a cross-functional team.
- Completed experiment set-up and obtained metrics and engineering excellence approvals in preparation for the feature to be launched to over a million users in the US.
- Learnt Dart and Flutter without prior experience in a span of a few weeks to be able to contribute meaningfully.

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May – Nov 2020

Software Engineer

- Contributed to the founding of the second-hand online bookstore start-up as one of the earliest tech employees.
- Developed an algorithm to automatically set prices for hundreds of books each week, saving hours of work.
- Created a Telegram Bot using Python to improve customer experience during the book trade-in process.

Dean of Students Office, Yale-NUS College

Aug 2019 – Present

Student Associate (Residential Housing)

- Devised a Python program using the Gale-Shapley algorithm to automatically allocate rooms for over 250 students to maximise diversity and match living preferences within suites, saving weeks of manual labour.
- Created a mail merge program using Python to automate the process of sending personalised emails to over 750 students, overcoming stability issues and feature limitations of existing programs.
- Produced clear and efficient SOPs to accommodate ever-changing requirements during the COVID-19 pandemic.
- Crafted and conducted technical interviews for the hiring of a new full-time Residential Housing Assistant Manager and assumed operational responsibilities of the position in the 3-month interim period.

Summer Research Programme, Yale-NUS College

May – Jul 2019

Research Assistant for Asst. Prof. Michael T. Gastner

- Introduced key functionality and improved the design of a data visualisation app (go-cart.io) using C.
- Removed bottlenecks which increased the speed of the app by up to 70%.

EDUCATION

Yale-NUS College

Aug 2018 – May 2022

Bachelor of Science, majoring in **Computer Science**. Current GPA: 4.67. Major GPA: 4.95.

- Capstone Project: *Building an Online Structured Editor for the Coq Proof Assistant*.
- Coursework: Software Engineering, Data Structures & Algorithms, Parallel Programming, Programming Language Design & Implementation, Functional Programming & Proving, Operating Systems.
- Peer Tutor, YSC2221 *Introduction to Python* and YSC1212 *Introduction to Computer Science* (under [Olivier Danvy](#)).
- Secretary, *Student Government*: Spearheaded communications and revamped government newsletter and website.
- Production Manager and Musical Director, *Next to Normal*: Led a team of 30 students to produce a musical.
- Co-Manager, *Brewhouse*: Led and trained a team of 20 volunteer baristas for a student-run coffee cart.

SKILLS

- Programming (Proficient: Python. Competent: OCaml, Dart. Familiar: C, Java)
- Data Analytics (R)
- Web Development (HTML, CSS, JavaScript, Django, Flask)
- Mobile App Development (Flutter)
- Software Development (Git, PyCharm, IntelliJ, Heroku, Firebase, DigitalOcean, CircleCI)

AWARDS & CERTIFICATIONS

- Commanding Officer (CO) Coin Award (2017)
- Sword of Merit (2016)
- WSQ Certificate in Advanced Team Leadership (2016)
- Raffles Diploma with Merit in Character & Leadership and Arts & Aesthetics (2015)