

# BERNARD BOEY

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## EXPERIENCE

Google

May – Aug 2021

### Software Engineering Intern

- Implemented new frontend design for rewards in **Google Pay** independently, 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 with designers, product managers, and engineers in a cross-functional team.

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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 book prices for hundreds of books each week, removing the tedious process of deciding prices by hand.
- 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 – May 2021

### 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, assuming operational responsibilities in the 2-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](http://go-cart.io)) using C.
- Removed bottlenecks which increased the speed of the app by up to 70%.

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## 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, *YCC1122 Quantitative Reasoning* 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*: Trained baristas and managed logistics and finances for a volunteer-run coffee cart.

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## SKILLS

- Programming (Proficient: Python, OCaml. Familiar: Dart, Scala, C)
- Data Analytics (R, SQL)
- Web Development (HTML, CSS, JavaScript, Django, Flask)
- Mobile App Development (Flutter)
- App Development (Git, Heroku, DigitalOcean, CircleCI)

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## 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)