Benn Tan

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BComp. in Computer Science
NUS Merit Scholarship
Expected Graduation: 2025

VICTORIA JUNIOR COLLEGE

GCE A Levels
2019 - 2020
Offered 4H2 PCME
88.75 Rank Points

CO-CURRICULAR ACTIVITIES

NUS FINTECH SOCIETY

Software Engineer
Developing fintech applications

NUS GOOGLE DEVELOPER STUDENT CLUB

Software Engineer
Developing for public good

VJC V-HACK SOCIETY

Vice President
VJC's computing interest group
Conducted ad hoc programming lessons
Created a hyperlocal link shortener

YOUTUBE CHANNEL

Functions as a way to document my code journey when I started at 14 years old

SKILLS

PROGRAMMING

JavaScript/TypeScript (React, Node)
Swift (iOS Development)
HTML
CSS (i.e TailWind CSS, Ant Design)
C++ (for Competitive Programming)
Python

DEVOPS

DigitalOcean
SSH
nginx
CI/CD Pipelines
Docker
Git (GitHub/GitLab)

EXPERIENCE

ZENITH EDUTECH | Software Engineer Intern

Feb - Aug 2023 | Singapore

- Full Stack - React Native, Prisma, TypeScript, PostgreSQL, NodeJS, Git
- Engineered numerous full-stack features (more than 20) across the internal teachers' portal and gamified platform for students
- Features include **video-on-demand lessons, advanced search filtering, hybrid class attendance tracking system, automated worksheet generation, notifications system, virtual whiteboard**
- Performed miscellaneous tasks such as creating database migration scripts, generating local seed data and migrating GraphQL endpoints to Rest API endpoints, squashing lots of bugs during overnight *Bugathon*
- Sole (and youngest) intern to receive return offer to continue role on freelance basis on grounds of outstanding performance

ASCENT TECH | Software Engineer

Dec 2020 - Apr 2021 | Singapore

- Full Stack - EJS, MongoDB, ExpressJS, DigitalOcean
- Reduced the traditionally laborious problem of tutor-tutee pairings to a **Maximum Cardinality Bipartite Matching** Problem
- Devised an **augmenting paths (i.e Ford-Fulkerson) algorithm** to find the most optimal matching
- Created a CMS that enables admins to view, configure and manage the list of tutor-tutee pairings generated algorithmically.

PROJECTS

BUILD FOR GOOD 2023 | Open Government Products

- One of 60+ finalists out of 600+ applicants
- Engineered a mobile-optimized TikTok style web app that curates a series of organic events for youths to combat social isolation

ONLINE JUDGE | V-Hack

- Initiated an online that judge system for my CCA in school to automatically grade algorithmic code submissions in a secure sandbox environment with Judge0 API against a set of pre-defined test cases

AWARDS

NUS LIFEHACKS HACKATHON 2022

- Uses **OpenCV** wrapped with **Python** and computational geometry to count the number of proper push-ups and sit-ups one has executed
- Won Special Prize (worth SGD350) against 413 university students

NATIONAL OLYMPIAD IN INFORMATICS 2020

Top School Scorer and Silver Medalist against 200+ students

SINGAPORE GAMES CREATION COMPETITION 2017

Finalist and won Merit Award out of 100+ teams

RECOMMENDATIONS

Endorsement from my previous Product Head at Zenith EduTech
Endorsement from my alma mater's principal