

BRYANN YEAP

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EDUCATION

National University of Singapore (NUS)

Aug 2020 – May 2024
[Expected]

- Bachelor of Computing (Honours) in Computer Science
- Current Cumulative Average Point: 4.78/5.00 (Highest Distinction)
- Offered and accepted one of the 3 spots reserved for NUS School of Computing in the Singapore Universities Student Exchange Programme (SUSEP), for an exchange experience to Singapore Management University (SMU)

WORK EXPERIENCE

Rakuten Asia

May 2022 – Jul 2022

Software Engineer Intern | *Java, Spring Boot, MySQL, MongoDB, AWS S3, Kafka*

- Developed microservice **REST API** endpoints with **Test-Driven Development** (TDD) using **Mockito** and **JUnit 5**
- Pushed 2 features to production, which are used by an estimated 10,000 clients daily
- Introduced mocks for the purpose of testing the integration of cloud computing services such as **AWS S3**
- Maintained code coverage above 90% (monitored with **Jenkins**, **SonarQube**) and updated documentation of existing systems (**Confluence**)

PROJECTS

Offer Profile Repository | Back-End Developer

Sep 2022 – Present

- Partnered with the creators of the [Tech Interview Handbook](#) to construct a portal that allows job hunters to benchmark their job offers
- Became one of the [top contributors](#) of the [top 100 most starred repositories](#) on **GitHub**, standing at 80.1k stars
- Utilised the T3 stack comprising of **TypeScript**, **tRPC**, **Prisma**, **Next.js**, and deployed on **Vercel**
- Built an Offer Analysis Engine that compares the user's submitted offers against the existing offers in the database
- Seeded the database with over 200 submissions from the viral [Singapore Tech Salaries Google Sheet](#) so as to have more data points, resulting in increased accuracy when analysing offers

Giving Coupons | Full Stack Developer

Aug 2022 – Sep 2022

- Self-started an initiative with my peers geared towards raising both awareness and money for charities, charitable causes, and voluntary non-profit organisations
- Raised approximately **1000 SGD** for charities such as Make-A-Wish Singapore, Samaritans of Singapore, Handicaps Welfare Association, and more

CardBox | Full Stack Developer

Jan 2022 – Mar 2022

- Built a multiplayer iOS card game framework that involved computer network communication, and an online NoSQL database management system (**Firestore**)
- Devised and implemented a Request-Response protocol used for interactions between players across devices

Peggle Clone | Full Stack Developer

Jan 2022 – Mar 2022

- Recreated the game [Peggle](#) for all iOS platforms using **Swift** for the business logic, and **SwiftUI** for the view
- Applied multiple design patterns such as MVVM, Delegate Pattern, Decorator Pattern, and Publisher-Subscriber Pattern, to maintain quality, readability, and maintainability of the code base
- Designed an extensible 2D physics engine from scratch, which required programmatically solving problems such as detecting 2-dimensional intersections, simulating physical phenomena (i.e. gravity, collisions, restitution), and rendering frames of the 60Hz game loop smoothly

CO-CURRICULAR ACTIVITIES

Google Developer Student Club NUS | Back-End Lead

Aug 2022 – Present

- Collaborated with *The Food Bank Singapore Ltd* to create a Learning Content Management System to be used by their Juniors Club programme, consisting of over 100 members
- Facilitated the development of the back-end architecture, including the database schema and API endpoints
- Reviewed approximately 15 pull requests opened by fellow members and enforced a high standard of code quality

NUS School of Computing | Teaching Assistant

Aug 2022 – Present

- Conducted weekly lessons for the following modules: **Software Engineering**, **Computer Organisation**
- Monitored the students' progress on deliverables, graded their assignments, and invigilated their examinations

AWARDS

- Commendation Letter for top students in Programming Methodology II
- SBSTransit Education Award – University Category (Every year from 2020 – Present)

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript/TypeScript, Swift, Python, HTML/CSS, C, C++, C#
- **Framework and tools:** ReactJS, Next.js, Spring Boot, MySQL, PostgreSQL, MongoDB, Prisma, tRPC, SwiftUI, Git
- **Coursework:** Data Structure & Algorithms, Computer Networks, Database Systems, Information Security
- **Languages:** English (Proficient), Chinese (Basic)