

# 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 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

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

## PROJECTS

### Offer Profile Repository | Back-End Developer

Sep 2022 – Present

- Partnered with 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
- Enhanced accuracy of offer analysis by automating the seeding of our database with over 200 submissions obtained from the viral [Singapore Tech Salaries Google Sheet](#)

### 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
- Maintained quality, readability, and maintainability of the code base by applied multiple design patterns such as MVVM, Delegate Pattern, Decorator Pattern, and Publisher-Subscriber Pattern
- 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 development of the back-end architecture, including database schema and API endpoints
- Enforced a high standard of code quality by reviewing approximately 20 pull requests opened by fellow members

### NUS School of Computing | Teaching Assistant

Aug 2022 – Present

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