BRYANN YEAP

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EDUCATION

National University of Singapore (NUS)   **Aug 2020 – May 2024**
- Bachelor of Computing (Honours) in Computer Science   **[Expected]**
- 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*
- Developed microservice **REST API** endpoints with **Test-Driven Development** (TDD) using **Mockito** and **JUnit 5**
- Committed 2 features to production that are used by an estimated 10,000 clients daily
- Introduced mocks to test 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 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 (**Firebase Cloud 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 development of the back-end architecture, including 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 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, PostrgeSQL, MongoDB, Prisma, tRPC, SwiftUI, Git
- **Coursework:** Data Structure & Algorithms, Computer Networks, Database Systems, Information Security
- **Languages:** English (Proficient), Chinese (Basic)