BRANSOME TAN YI HAO

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EDUCATION

National University of Singapore   **Aug 2021 - Present**
Bachelor of Computing (Honours) in Information Systems
- Recipient of Wee Cho Yaw Future Leaders Scholarship Award
- CAP: 4.55 / 5.0 (Expected First Class Honours)
- Relevant Coursework: Programming Methodology I & II (Python and Java), Data Structures & Algorithms, Server-Side Enterprise Development (Software Engineering: Backend), System Architecture and Design (UML/Sequence Diagram/Activity Diagram), Business Analytics with R, Data Management and Visualisation (SQL, Tableau, MongoDB)

Singapore Polytechnic   **Apr 2016 - May 2019**
Diploma in Electrical and Electronic Engineering
- GPA: 3.961 / 4.0
- Graduated with a Diploma with Merit

EXPERIENCE

Software Engineer, NUS Fintech Society   **Aug 2023 – Current**
- Project ATLUS: HR Management System
  - Develop an internal tool to manage NUS Fintech Society's members and future applicants.
- Project PLUTUS: Trading Infrastructure
  - Develop web application for quant developers to back test and deploy trading strategies.
- Collaborate closely with UI/UX designers to develop fintech/web applications from prototypes.
- Collaborating in team of 4 SWE, 1 Tech Lead and 1 Project Manager via weekly sprints according to SCRUM framework.

Software Engineer Intern, Exyte Singapore   **May 2023 – Aug 2023**
- Project AUGMENT: Real Time Notification System
  - Developed a Minimum Viable Product (MVP) for a notification feature on a web application catering to a large team of over 100 engineers, improving overall work efficiency by 75%, including gathering business requirements and prototyping UI/UX for the feature.
- Contributed to the maintenance of the website interface, focusing on optimizing its functionality and enhancing the overall user experience.
- Actively participating in daily standups, sprint planning meetings, and adopting scrum methodology for efficient project management and collaboration.

NUS Undergraduate Teaching Assistant, Data Management and Visualisation (BT2102)   **Jan 2023 – May 2023**
- Facilitated weekly tutorials for a class of 30 students, covering concepts related to: DBMS and Database Design, Entity-Relationship Modelling, SQL, Data Visualization with Tableau, MongoDB
- Prepare revision materials and conduct consultation sessions and address students questions

IT/Automation Developer, SAF Ammunition Command   **Jul 2019 - May 2021**
- Innovated and automated multiple programs (Access and VBA), analyzed overall staffing needs with data analytics tools (PowerBI), maximized productivity and system efficiency, improving overall workflow in organization by more than 50%
- Conducted and facilitated 3 IT-Workshop and sharing for programs created with other departments and branches, allowing to learn from best practices

Project Engineering Intern, Rohde & Schwarz Asia Pte Ltd   **Sep 2017 - Oct 2017**
- Collaborated with a team of 5 engineers to set up and conduct outdoor site measurements for signal radiation, contributing to overall findings and performance.
- Partnered with National Environmental Agency (NEA) for a test and measurement project

PROJECTS

- **Retail Banking System (NUS):** Built a Retail Core Banking enterprise application (JavaEE/JakartaEE) with a relational database (MySQL) by adopting component/service-based development with JPQL and ORM
- **StuBid (Student Bidders):** Built a Full Stack Marketplace Mobile App (React Native and Firebase) for all students studying in SG Universities to conveniently buy/bid or sell unwanted items online through an anonymous bidding system
- **Stock Fetcher**: Built a simple API service (ExpressJS) to retrieve stocks data and display on the web interface (ReactJS)
- **Digital Attendance Tracker (SAF):** Built an Android Mobile App (Android Studio/Java) allow users (NSFs) to take attendance digitally and store data in a Realtime Database (Firebase)
- **Automated Booking Bot (Driving):** Built a Web Bot uses Python (Selenium) to remotely control web browsers for logging, booking slots for driving lessons and alerting users via Telegram Bot
- **SMART Live Video/Audio Broadcast System (SP):** Built a software application (C Language) under embedded linux environment uses Bash (Shell scripting) and to act as an emergency IP multicasting video PA system

AWARDS

- **Wee Cho Yaw Future Leaders Scholarship 2021**: Awarded to those who possess leadership and enterprising spirit
- **Global Foundries Prize 2019**: Awarded to top performing Diploma in Electrical and Electronic Engineering student throughout his/her course of study
- **SP Engineering Show 2019 (Gold Award):** SMART Live Video/Audio Broadcast System
- **SMART Poly FYP Challenge 2018/2019 (Finalist):** FYP Project emerged finalist among dozens of projects
- **Microcontroller Applications Design Contest 2017/2018 (Merit Prize):** SMART Pet house
- **SP Director's Honour Roll 2017/18/19:** Top 10% of cohort for outstanding academic performance

SKILLS

- Programming Languages/Frameworks : Java • Python • Javascript • PHP • Firebase • MySQL • HTML/CSS • Bash • VBA • React/React Native • NodeJS • MongoDB • C/C++ • JavaEE/JakartaEE • Bootstrap • Jquery
- Other Skills : Figma • Moqups •Tableau • PowerBI • Microsoft Office (Word, Powerpoint, Excel, Access) • CAD