BRANSOME TAN YI HAO

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EDUCATION

National University of Singapore   **Aug 2021 - Present**
Bachelor of Computing (Honors) in Information Systems
- Recipient of Wee Cho Yaw Future Leaders Scholarship Award
- CAP: 4.55 / 5.0 (Expected First Class Honors)

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

EXPERIENCE

Exyte, *Software Engineer Intern, Singapore*   **May 2023 – Aug 2023**
- Led the development of a Frontend MVP notification feature for a web application serving 100+ engineers, boosting efficiency by 75%. Orchestrated end-to-end responsibilities, from business requirements to UI/UX prototyping.
- Contributed to optimizing backend development and quality assurance, refining API endpoints, testing, and elevating the effectiveness of the CI/CD pipeline.
- Actively participating in daily standups, sprint planning meetings, and adopting scrum methodology for efficient project management and collaboration.

National University of Singapore, *Undergraduate Teaching Assistant, Singapore*   **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 student's questions.

SAF Ammunition Command, *IT/Automation Developer, Singapore*   **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.

PROJECTS

- **ClientClutch:** Developed an AI-enabled customer service tool which allows transcription, comprehension, and analysis of customer support interactions (ReactJS, TailwindCSS, Python with Flask, OpenAI, Vercel)
- **PropertyNirvana:** Developed a Full Stack Web App to allow homeowners to track, analyze and gain insights about their properties and investments (VueJS, Firebase, OpenAI, URA API, News API, OneMap API)
- **StudentBidders:** Built a Full Stack Marketplace Mobile App for all students studying in SG Universities to conveniently buy/bid or sell unwanted items online through an anonymous bidding system (React Native, Firebase)
- **Stock Fetcher**: Built a one-stop web interface to retrieve and display stocks data (ReactJS, ExpressJS, IEX Cloud API)
- **Retail Banking System:** Built a Retail Core Banking Enterprise Application with a relational database by adopting component/service-based development with JPQL and ORM (EJB, JavaEE/JakartaEE, MySQL)
- **Digital Attendance Tracker:** Built an Android Mobile App which allow users to take attendance digitally and store data in a Realtime Database (Android Studio, Java, Firebase)

ACHIEVEMENTS

- **Orbital (Artemis) 2022**: Project was ranked top 7% (29 out of 500+ teams) for summer software engineering program.
- **Wee Cho Yaw Future Leaders Scholarship 2021**: Awarded to those who possess leadership and enterprising spirit.
- **Letter of Commendation 2021**: Awarded Best Soldier of the Month with commendation for outstanding service.
- **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)**: Won Gold Award with 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)**: Won Merit Prize with SMART Pet house
- **SP Director's Honour Roll 2017/18/19**: Top 10% of cohort for outstanding academic performance

CO-CURRICULAR ACTIVITIES

NUS Fintech Society, *Software Engineer, Singapore*   **Aug 2023 – Present**
- Contributing to the development of an internal HR management system for NUS Fintech Society and a web application for quant developers to backtest and deploy trading strategies.
- Collaborating in team of 4 SWE, 1 Tech Lead and 1 Project Manager via weekly sprints according to SCRUM framework.

SKILLS

- **Programming Languages**: Java • Python • Javascript • C++ • HTML • CSS • SQL
- **Libraries, Frameworks, and Tools**: Bootstrap • jQuery • NodeJS • React/React Native • VueJS • Firebase • MySQL • MongoDB • JavaEE/JakartaEE • Git • GitHub • Postman • CI / CD • Agile Methodology
- **Other Skills**: Figma • Tableau • PowerBI • VBA • Microsoft Office (Word, PowerPoint, Excel, Access, etc.)