Ng Yu Hueng

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EDUCATION

Singapore University of Technology and Design
Singapore
Sep 2022 to Present
- Bachelor of Engineering (Computer Science and Design)
- GPA 4.13/5.0
- Date of graduate: May 2026

Catholic Junior College
Singapore
Mar 2018 to Nov 2019
- Graduated with an 'A' Level Certificate
- Took the curriculum Physics, Math, Chemistry and Economics

TECHNICAL SKILLS

Programming Languages: Python | JavaScript | HTML | CSS | Ruby | Java | C
Database and Query Languages: SQL | MongoDB | Firebase
Libraries and Frameworks: Pandas | NumPy | Rails | ExpressJS | React | Bootstrap | TailwindCSS (CSS), Streamlit | XML
Other Skills: Google Cloud | Git | AutoCAD

PROJECTS

DBS DocCheck   **May 2024 to Present**
- Developed a full-stack web application using Ruby on Rails, JavaScript, HTML, and CSS to streamline the credit card application process for DBS, specifically targeting foreign users.
- Implemented robust form validation and user-friendly interfaces to minimize errors and improve the user experience.
- Collaborated closely with 2 DBS staff to understand requirements and ensure seamless integration with existing systems.
- Employed Git for version control, facilitating collaborative development and continuous integration with a team of 6,
- Deployed the application on Google Cloud, ensuring scalability and reliability.
- Adopted the Sprint framework, delivering a new feature every 2 weeks

Portfolio Website (GitHub | Website)   **July 2024 to July 2024**
- Developed a responsive and interactive personal portfolio website using the MERN stack (MongoDB, ExpressJS, React, NodeJS) within 7 days, showcasing projects, skills, and experiences.
- Implemented dynamic single-page applications with React, and integrated a backend API with NodeJS and ExpressJS, ensuring efficient data management with MongoDB.
- Optimized for SEO and deployed on cloud platforms, ensuring high availability, scalability, and seamless user communication through form validation and email handling.

LeftoverChef (GitHub | Demo)   **Jan 2023 to Apr 2024**
- Developed a full-stack Android application using Java and XML to reduce food wastage by offering recipe suggestions for leftover ingredients.
- Implementeded advanced photo analysis capabilities and ingredient recognition using YoloV5 and TensorFlow, integrating
- OpenAI and Google Search APIs to generate recipes suggestions.
- Backend powered by Firebase, ensuring real-time data storage and retrieval. Collaborative development managed with Git for version control and teamwork.
- Awarded Honorable Mention and a $1,000 prize at the Singtel Information Systems and Programming Merit Award for innovative use of technology in combating food waste

Generative AI Hackathon by TemasekXSUTD   **Mar 2024 to Mar 2024**
- Collaborated in a team of 3 to design and develop an AI-powered chatbot during the GenAI Hackathon, hosted by Temasek and SUTD.
- Partnered with business professionals from Temasek to identify and address daily operational challenges through AI solutions.
- The chatbot was made to automate responses and assist in managing workload, contributing to a significant improvement in task handling and productivity for Temasek staff.

Design Thinking and Innovation Project (DaDome)   **Feb 2023 to May 2023**
- Spearheaded a multidisciplinary team in a project that applied design thinking methodologies to enhance the lighting at SUTD, aiming to create a more vibrant and engaging atmosphere. Developed innovative lighting solutions that not only improved visibility but also contributed to the overall liveliness of the environment, showcasing practical application of design principles to real-world challenges.

LEADERSHIP

SUTD Skating Interest Group Treasurer   **Mar 2023 to July 2023**
- Managed financial responsibilities as Treasurer for the SUTD Skating Interest Group, overseeing a budget to support the club's activities and equipment needs.