BRENDAN NG

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EDUCATION

National University of Singapore   **Aug 2023 - Present**
B. Comp (Hons) in Computer Science
- GPA: 5.0/5.0
- Dean's List: AY23/24 Semester 1 | AY23/24 Semester 2 | AY24/25 Semester 1
- Relevant Coursework: Programming Methodology, Discrete Structures, Data Structures & Algorithms, Software Engineering, Computer Organisation
- Graduating in May 2027

INVOLVEMENT

KEMotion & KEVision, *Secretary-Treasurer, Member*   **Jul 2024 - Present**
- In-charge of financial and administrative matters
- Filmed and edited videos for King Edward VII Hall
- Photographed key events for King Edward VII Hall

KE7 Touch Rugby, *Member*   **Jul 2024 – Jan 2025**
- Represented King Edward VII hall in Inter-Hall games.

Hall Affairs Board, *Member*   **Jan 2024 – May 2024**
- Assist in planning and carrying out hall wide events
- Design and publish promotional material on organisation's social media accounts

PROJECTS

Spotless   **Nov 2024 – Jan 2025**
- Developed a solution to automate bus cleanliness quality checks that won 3rd place at the SBS Transit Hackathon
- Front-end was developed using React and Material UI components and back-end is built using Django
- Integrated Gemini 1.5 Flash to process images and classify image cleanliness

Personal Portfolio Website – *(https://brendanng7.github.io/portfolio-website)*   **Dec 2024**
- Frontend project to showcase my personal experience and creativity, planning to showcase my photos and add an interactive segment in the future
- Built with Next.js and styled with Tailwindcss

ContactMate   **Apr 2023 - May 2023**
- CS2103T Software Engineering
- Learnt Software Engineering fundamentals, developed a brownfield software project that is catered to AAC Volunteers to manage clients' contacts.

Jouzu   **May 2024 - Present**
- Developed an application to bridge the gap between theoretical language learning and practical application for Japanese learners by providing a toolkit that utilise LLMs.
- Front-end was built with React Native and prototyped rapidly with Expo Go. Back-end was developed with Django.
- Implemented FCM services for notification handling, integrated OpenAI's GPT-3.5 Turbo.
- Automated unit, component and integration testing using Jest and Django's test library.

CVWO Gossip with Rails   **Nov 2023 - Jan 2024**
- Built a full-stack web forum with CRUD functionalities whilst learning Ruby on Rails
- Front-end was developed using React and Material UI components and back-end is built using Ruby on Rails
- Implemented JWT authentication

WORK EXPERIENCE

Private Tutor   **Jan 2023 – Present**
- Tutored primary and secondary school students on Mathematics and Science

Singapore Armed Forces *Specialist and Warrant Officer Institute (SWI)*   **Jan 2020 – Nov 2021**
- Trained 2 batches of recruits as a section commander and 1 batch of recruits as a platoon sergeant
- Undergone intense physical and mental Infantry training

PROFICIENCIES

Programming Languages: Python, JavaScript, TypeScript, Ruby, HTML5, CSS3, Java, C
Libraries and Frameworks: ReactJS, React Native, TailwindCSS, Ruby on Rails, Material UI, SQL, Django, Jest, NextJS
Tools: Git, Vim, Markdown