

Benjamin Teo Ying Han

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EDUCATION

Monash University

February 2021 – December 2024

Bachelor of Business and a Bachelor of Information Technology (Majoring in Financial Econometrics & Software Development)

- GPA: 3.94/4.0
- WAM: 85.6/100.0
- Highest grade in FIT2001 System Development, in Semester 2, 2022
- Faculty of IT Student Ambassador - Managed events and social media campaigns to engage prospective IT students
- Accreditation report writer – led reaccreditation process for Monash Business School to attain EQUIS accreditation
- Clubs & Activities: Monash Assistive Tech Team, Monash DeepNeuron, Monash Student Managed Fund, Singapore Society Caulfield

SOFTWARE DEVELOPMENT GRADUATE

Recent graduate with experience in full-stack development & data analytics. Developed impactful solutions, including numerous award-winning hackathon projects and a productivity platform tackling procrastination. Proficient in Python and JavaScript, with a focus on user-centric design and scalable applications

SKILLS

Languages, Frameworks, & Technologies

JavaScript, Arduino, PHP, SQL, Tableau, HTML, CSS, Python, Java, Figma, Git, R, Typescript, React, Flask, Vega-Lite, CakePHP

EXPERIENCE

LearnOS

July 2024 - Present

Co-founder

- Founded and led an EdTech startup solving procrastination for students by breaking down assignments into personalised study plans
- Designed and implemented key product features using Next.js, and TypeScript, iterating based on insights from 220 customer interviews, leading to a 24% increase in user engagement
- Created high-fidelity prototype and main [website](#) using Figma and Wix, optimising user experience and driving a 35% increase in website traffic within 2 months

Monash University

February 2024 – May 2024

Full-stack Developer (Industry Studio Project)

- Developed a web application for a real client (Custom Home Builder), incorporating CMS, authentication, and full CRUD functionality
- Collaborated with the client to gather requirements and deliver a tailored solution meeting their specifications
- Built and tested the application using PHP, CakePHP, HTML, & CSS
- Gained hands-on experience in project planning, version control, and Agile methodologies, including Scrum and SDLC processes

PROJECTS

KONRAN – Chrome Extension for Summarising Privacy Statements and Terms & Conditions

3rd place, UNIHACK 2023

- Built a Chrome extension that simplifies lengthy legal documents into concise, user-friendly bullet points
- Solution parses current site to identify legal document, and utilises NLP-powered summarisation from OpenAI's Davinci model
- Tech stack: Python, Flask, Beautiful Soup, OpenAI Davinci, HTML, CSS, JavaScript

WIMP – Kitchen Inventory Management System

2nd place, UNIHACK 2024

- Developed an automated kitchen inventory system to capture images of fridge items and track their expiry dates
- Features include YOLOv4-powered object recognition, dynamic display of items, and real-time expiry alerts through email
- Tech stack: Python, Flask, YOLOv4, Tailwind CSS, Raspberry Pi, Arduino

NEURALEX – BCI Monitoring and Prediction Solution for IoT Devices

3rd place, Founders Hack 2024

- Developed a Brain-Computer Interface (BCI) solution to monitor brainwaves and predict states of concentration or relaxation, enabling control of IoT devices for physically impaired users
- Tech stack: Arduino, Muse 2, BrainFlow, Python (PyTorch, Sklearn, Pandas), Streamlit, PyLSL

Remote Controlled Fish-feeder – IoT Solution for Remote Fish Feeding

- Developed a remote-controlled fish feeder allowing owners to play and feed their fish via a mobile app, ideal for use while travelling
- Integrated custom 3D-printed propellers and rudders with servos and DC motors to control movement and feeding mechanism, paired with a Bluetooth-connected mobile app for easy control
- Tech stack: ESP32, Bluetooth, MIT App Inventor, Arduino IDE

Project Dance - Accessible Dance Guidance System for Visually Impaired Users

- Contributed to a real-time system using pose estimation and auditory feedback to guide visually impaired users through dance poses.
- Tech stack: MediaPipe, ToneJS, JavaScript, HTML, CSS

INTERESTS

Basketball, Soccer, Cooking, & Billiards