Isaac Tiew Xun Yong

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👤 Profile

Aspiring software engineer with a strong passion for developing applications that enables societal good through empathising with each individual's needs within the community. Strong motivation in sharpening technical skills and competencies by pursuing online courses and earning relevant certifications. Demonstrated proficiency in programming languages through projects by ensuring good coding practices that enhance code readability and clarity, minimising errors during development and improving collaboration between team members.

</> Education

Ngee Ann Polytechnic   2023 – 2026
Diploma in Information Technology   *Ngee Ann Polytechnic*

Hougang Secondary School   2019 – 2022
Singapore GCE O-Level Cambridge Examination   *Ministry Of Education*

🏃 CCA and Activities

Overflow Special Interest Group   2023 – 2026
> Gained hands-on learning experience with version control tools Git and Github.
> Learned about the key concepts of Object Oriented Programming (OOP) in Python.
> Taught seniors at Potong Pasir Community Club how to use canva to create memorable collages.

ICT Open House and ICT Redcamp   2023 – 2024
> Demonstrated to visitors how generative A.I. has been incorporated into the curriculum of the various diplomas offered and conducted a workshop for upper secondary school students on hosting static websites with AWS s3 buckets.

⚙ Technical skills

Languages </> Python, C#, C++, Java, Javascript, HTML, CSS, Lua
Frameworks Bootstrap5, Express
Other Skills

SCRUM Project Management	Software Design and Analysis	API Integration And Development
Object Oriented Programming	Mobile App Development	UI/UX Design (Figma/Adobe XD)
Code Documentation	Version Control	Database Management and debugging

Databases 🗄 Microsoft SQL (MSSQL), MongoDB, Firebase

⚙️ Soft Skills

Problem Solving Techniques   Adaptability   Interpersonal Skills   Resilience

Empathy   Leadership   Teamwork   Creativity

</> Projects

Backend Community Club Website
- Developed scalable backend services to enable seamless registration for events, booking of facilities and administrative management of users.
- Leveraged Node Js asynchronous capabilities to efficiently process requests made from the client - server.
- Implemented REST APIs using Express to execute SQL queries for modifying, retrieving, and updating user and administrative data in the MSSQL database.
- Built role based authentication with JWT tokens and bcrypt to ensure encryption of passwords and prevent unauthorised access to user's accounts.

Frontend website for Singaporean Motorists
- Developed a website catered to Singaporean motorists that enables them to plan their journeys and trips based on traffic conditions and be well informed on available lots in HDB Carparks.
- Integrated APIs from LTA Datamall and data.gov.sg to fetch and load data for displaying traffic cameras, checkpoint cameras and available HDB carpark lots.
- Incorporated Bootstrap 5 components such as cards, modals as well as responsive grid layouts to streamline frontend development and enhance users' experience.

Game development using SCRUM framework
- Developed a python console application which allowed users to build their own cities by constructing different building types and earning profits.
- **Sprint Review**: Presented increments to stakeholders and gathered feedback from them to include these new requirements in our sprint backlog.
- **Sprint Retrospective**: Discussed as a team room for improvements by inspecting and analyzing the work done and interactions between members.
- **Product Backlog Refinement**: Broke down product backlog items into user stories to provide clarity on requirements. Derived non functional and functional requirements to support the user stories identified.
- **Project Management**: Utilised Jira to track the team's progress on the features through reviewing burndown charts and moving product backlog items along the workflow.

Fullstack Development Project on cloud based ad-disribution - Role: Backend Developer
- Responsible for developing and implementing APIs, that retrieves and uploads the advertisements created by the user to the DynamoDB table using AWS SDK
- Implemented WebSocket protocol to enable bi-directional communication between server and client, for displaying real-time changes when advertisements are distributed to tvs and are being changed.
- Utilised AWS SDK with express js framework to develop and implement APIs that allow the client to upload, delete and retrieve image assets from AWS s3 buckets for the specific advertisements

💼 Experience

South West Community Development Council (CDC) Intern   May 2023 – Apr 2023
Intern   *JTC Summit Jurong Town Hall*
- Assisted with organization and planning for events such as MyPreSchoolShines and FestiveCheers@Southwest.
- Prepared and gathered the necessary logistics needed for the events launched by the CDC.
- Gathered feedback from participating merchants on the effectiveness of the CDC Voucher Scheme.

Digiphoto Entertainment Imaging (DEI)   Sep 2023 – Oct 2023
Photographer/Guest Associate   *Resorts World Sentosa*

> Captured and sold photographs of guests interacting with dolphins in dolphin island at Adventure Cove Waterpark.
> Assisted guests with the selection and printing of the phtographs taken.
> Handled closing operations by calculating daily revenue generated from sale of photographs.

♥ Community Work

Service learning project with seniors at Yong En Active Hub   2024
> Bridge the digital divide by educating seniors on using digital payment methods, PayLah and PayNow.

Distributed goodie bags to elderlies living in Golden Jasmine Bishan.   2022
> Cultivated appreciation and gratitude towards seniors through writing heartfelt letters of appreciation to them.

CNY Outreach to seniors at Teban Gardens   2018 – 2023
> Built relationships with the seniors by befriending them and empathising with their personal struggles and challenges.

👥 Referees

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