TYRA LEONI MEER TONGOL

ASPIRING TECH INNOVATOR

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Certifications

PCEP – Certified Entry-Level Python Programmer, Python Institute® (Issued Sep 2024)

- Foundational Python programming including control structures, functions and error handling

Web Development Fundamentals, IBM (Issued Jul 2024)

- Core web technologies including HTML, CSS, JavaScript and client server architecture

AI for Good (Youth) Student Facilitator (Issued Jun 2025)

- Facilitated talks in secondary schools on responsible AI and real world social impact applications

About Me

Tech enthusiast with a strong foundation in Python, Java, and web development. Skilled in software engineering, teamwork, and creative problem-solving, with a proven ability to adapt quickly and deliver under pressure. Dependable, quick to learn, and brings a creative edge to both tech and content.

Education

Diploma in Information Technology   2024 - Present
Nanyang Polytechnic

GCE O-LEVEL   2020 - 2023
SengKang Secondary School

Projects

Web Development Project | Mental Wellness Website   Sep 2024 – Nov 2024 (3 months)

- Built an interactive wellness website using HTML, CSS and JavaScript, featuring memory games, audio based exercises and form driven interactions
- Implemented responsive design, dynamic UI updates and event handling to improve accessibility and user experience

App Development Project | Improved ToysRUs Web Application   Oct 2024 - Feb 2025 (4 months)

- Developed a full stack toy marketplace with eco friendly features and a toy swap system using HTML, Bootstrap, JavaScript, Flask and SQLite
- Implemented secure authentication, role based dashboards and real time search with filtering, focusing on intuitive UX and navigation

Full Stack Development Project | Auto Query Web Application   April 2025 - Aug 2024 (4 months)

- Built a full stack web application using React, Node.js and MySQL with secure client and staff authentication and full CRUD functionality
- Integrated AI driven analytics for client engagement tracking, deactivation risk prediction and AI powered security monitoring with geolocation and anomaly detection

Skills

Hard

- Python
- Java,
- C#
- Node.js
- Flask
- HTML/CSS
- Database Management
- Software Engineering

Soft

- Teamwork
- Event planning and coordination
- Critical thinking
- Quick to learn and adapt
- Dependable and takes ownership
- Creative and good at making content

Community Service

Youth Expedition Project (YEP) – Tra Vinh, Vietnam

- Contributed to community development through classroom construction, solar panel installation and English teaching while building cross cultural empathy, resilience and teamwork.

YEP Singapore Local Project

- Contributed to a kayak based waterway clean up initiative at PAssion Wave Jurong Lake Gardens, supporting environmental conservation efforts.

Leadership & Co-Curricular Engagement

Head of Pubilicity, NYP Swift App Development SIG

Led publicity efforts by creating digital assets, managing social media, and driving outreach to boost event visibility and student engagement

Subcommittee Member (Publicity), Girls in Tech Singapore (Cross-Polytechnic)

Led video editing and content creation for publicity campaigns to boost club engagement

Subcommittee Member, NYP Google Developer Student Clubs

Supported backend setup and event logistics for technical workshops promoting Google technologies

Member, Nanyang Polytechnic School of Information Technology Club

Volunteered as a Student Helper for Open House and Freshmen Orientation 2025, supporting event execution, welcoming guests, and assisting in game facilitation and logistics.

Achievement

Participant in Tech for Good Festival 2023

Developed and presented a working prototype of a moisture sensor designed to help visually impaired individuals measure liquids accurately; involved in end-to-end ideation, prototyping, and public presentation.

Participant in SDG Open Hack (NYP edition) 2025 Hackathon

Developed and pitched UrbanWave, an AI powered real time flood alert platform supporting SDG 11, featuring crowdsourced reporting, public data integration, predictive risk mapping and safe route alerts.

Participant in PSA Code Sprint Hackathon 2025

Developed PORTUS AI, a conversational AI assistant for global trade operators that integrates vessel, port and weather data to simulate disruption scenarios and recommend optimal rerouting decisions.