

MUHAMMAD FARHAN S/O RAFEEK AHAMED

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PROFESSIONAL SUMMARY

Final-year Diploma student in Business & Financial Technology (GPA: 4.0/4.0) with strong experience in building user-facing web applications using Python, JavaScript, HTML, and CSS. Experienced in developing responsive interfaces, implementing secure CRUD operations, and collaborating in Agile teams to deliver scalable digital solutions. Passionate about front-end development and creating intuitive, human-centric web experiences.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript (ES6), HTML5, CSS3, SQL
- Frameworks & Libraries: Flask, Jinja2, Bootstrap
- Databases: SQLite, MySQL, MongoDB
- Development Tools: Git, GitHub, VS Code
- Methodologies: Agile Development, Design Thinking, Object-Oriented Programming (OOP)

PROJECT EXPERIENCE

Intergenerational Web Platform | Web Development Project

Nanyang Polytechnic | October 2025 - February 2026

- **Led a team of 5 members** to develop a full-stack web application addressing the generational gap between youths and seniors in Singapore, coordinating sprint planning, code reviews, and milestone deliveries using **Agile methodology**
- Architected and implemented **Profile Management** system with complete **CRUD operations**, enabling personalised user experiences for both youths and seniors with age-appropriate **UI/UX considerations**
- Designed and developed **Friends Feature** to facilitate safe, meaningful connections by implementing **friend request workflows** and **privacy controls** that limit direct messaging to verified connections only
- Applied **Object-Oriented Programming (OOP)** principles to create maintainable **Python classes** for **User, Profile, and Friends** models with robust **data validation** and error handling
- Designed **SQLAlchemy database schema** with normalised tables and foreign key relationships to support efficient **user profile and friend connection management**
- Built and **shipped responsive user-facing features** using Bootstrap and Jinja2, ensuring accessibility and seamless mobile experience

NYP Floorball Website | UX Design & Web Development Assignment

Nanyang Polytechnic | June 2025 – August 2025

- **Collaborated** with a teammate to **design and develop** a promotional website to increase **student engagement and recruitment**
- **Designed** the homepage with a clear **content hierarchy**, featuring real-time updates and upcoming match information
- Structured the main content to present the CCA overview, achievements, and training schedule for prospective members

- Implemented a sign-up form to streamline interest registration and improve accessibility
- Applied **UX principles** to ensure a purposeful, intuitive, and user-friendly experience for both existing players and new recruits

CO-CURRICULAR ACTIVITIES

Student Council Executive Committee (EXCO) | Sembawang Secondary School *Deputy Head of Compliance | 2023-2024*

- Oversaw **student discipline and compliance**, ensuring councillors upheld high standards as role models within the school
- Planned and executed **duty rosters and responsibilities**, coordinating teams for daily school operations
- Significantly improved **duty attendance rates** by enforcing accountability measures and clear communication, ensuring consistent participation compared to previous years
- Worked closely with fellow EXCO members and teachers to support school-wide initiatives and events

Student Council Member | 2022 – 2023

- Represented the student body and supported the planning and execution of school events and daily duties

National Cadet Corps (NCC – Sea) | Sembawang Secondary School *Alpha IC | 2023-2024*

- Led and mentored **Secondary 1 cadets**, guiding their development into disciplined and competent senior cadets
- Conducted training sessions covering **drills, seamanship knowledge, and physical training**, fostering teamwork, discipline, and resilience
- Served as the primary point-of-contact for cadet welfare, performance, and discipline within the Alpha group

NCC Member | 2021 – 2023

- Participated actively in training, camps, and school events, developing discipline, leadership, and teamwork skills

EDUCATION

Nanyang Polytechnic

Diploma in Business & Financial Technology

Expected Graduation: April 2028

GPA: 4.0 / 4.0

Sembawang Secondary School

O Levels

Graduation: November 2024

CERTIFICATIONS & ACHIEVEMENTS

- User Experience Design Fundamentals - IBM, 2025
- Web Development Fundamentals - IBM, 2025
- Certified Entry-Level Python Programmer - Python Institute, 2025
- AI Fluency: Framework & Foundations - Anthropic, 2025
- Nanyang Polytechnic Director's List for AY2025/2026 Semester 1