# MUHAMMAD FARHAN S/O RAFEEK AHAMED

muhd.farhan01408@gmail.com | +65 97640128 | https://www.linkedin.com/in/muhammad-farhan-b3b649332/ | https://farhan0148.github.io/Portfolio/

## PROFESSIONAL SUMMARY

Final-year Diploma student in Business & Financial Technology with strong experience in full-stack web development using Python Flask. Experienced in designing profile management systems, implementing secure CRUD operations, and integrating team-developed modules in production-ready applications. Proven team leader with Agile development experience, strong problem-solving abilities, and a focus on building scalable, human-centric digital solutions.

## TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, HTML5, CSS3, SQL, Swift
- 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 **responsive user interface** using **Bootstrap and Jinja2**, ensuring accessibility and a seamless mobile experience for senior users

### 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