

## Sugianto

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[github.com/Sugiantoxyk](https://github.com/Sugiantoxyk) | [sugiantoxyk.github.io](https://sugiantoxyk.github.io)

## EDUCATION

### Nanyang Technological University, Singapore

Aug 2020 – Dec 2023

- **Bachelor of Engineering (Computer Science)**
- Honours (Highest Distinction), CGPA: 4.59/5.00
- Specialization: Artificial Intelligence, Data Science & Analytics
- Tuition Grant Holder; Eligible for Employment Pass
- Relevant Modules: Advanced Software Engineering, Database System Principles, Algorithm Design & Analysis

### Nanyang Polytechnic, Singapore

Mar 2017 – Mar 2020

- **Diploma in Information Technology with Merit**
- Director's List for all Semesters, CGPA: 3.99/4.00
- Specialization: Geospatial & Mobile Innovation
- Relevant Modules: Smart Device Development & Project, Object-Oriented Design & Project

## ACADEMIC PROJECTS

### Nanyang Technological University, Singapore

#### Final Year Project

##### Title: Virtual Reality (VR) Table Tennis Player

Jan 2023 – Dec 2023

- Developed an immersive VR table tennis game that includes match play with an AI bot and practice mode with a ball shooter machine using Unity and C# language; responsible for every phase of the project.
- Applied Event-driven Programming to enhance game logic and Quaternion Math for rotation calculations.
- Achieved high accuracy in the physics of the table tennis ball; completed it within 5 months despite being new to VR Game Development.
- Recognized and approved by the school for the project to be showcased at the upcoming TechIgnite 2024 and NTU Open House event.

#### Advanced Software Engineering

##### Title: SGEEvents - Cross-Platform Event Management Application

Feb 2022 – Mar 2022

- Implemented a cross-platform application that enables organizations to post events and users to sign up for the events using Flutter SDK and Dart language.
- Led a project team of 6 and enforced the Agile methodology throughout the Software Development Life Cycle (SDLC) stages; acquired teamwork and resource management skills.

#### Software Engineering

##### Title: Automated External Defibrillator (AED) Locator

Aug 2021 – Dec 2021

- Created an Android mobile application using Java language with Android Studio IDE; incorporated API with real-time AED location data and Google Maps API for navigation.
- Employed the Waterfall SDLC to ensure smooth development; acquired project management and time management skills.

### Nanyang Polytechnic, Singapore

#### Final Year Project

##### Title: Resource Management Web Application for Classroom Learning

Aug 2019 – Sep 2019

- Designed and built a C# web application utilizing the Model-View-Controller framework; supported with Bootstrap and jQuery packages for responsive web design; completed within 1.5 months.
- Integrated with Microsoft Azure and AWS Cloud services for their AI and Machine Learning services and optimized interface for GPU resource management, virtual machine usage quotas, and automated scheduling.

#### Smart Device Development & Project

##### Title: iLye - iOS Mobile Fitness Application

Mar 2019 – Jul 2019

- Programmed and constructed an iOS application using Swift language with Xcode IDE; deployed 'Yoga Tracker' to evaluate users' yoga poses using Human Pose Estimation with Computer Vision.
- Acknowledged by the school and featured in the NYP Open House event; participated in Splash Awards 2019 with this project.

## WORK EXPERIENCE

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### OneConnect Financial Technology (Singapore)

Jul 2022 – Dec 2022

#### Software Developer, Intern

- Improved user and software documentation of product for internal use by the development team using Markdown; participated in Daily Scrum meetings by sharing progress made using Tencent Meeting.
- Contributed to Front End Development across both iOS and Android platforms by performing debugging using Xcode and Android Studio's interactive debugging tools and Git's Version Control System.
- Supported the team with packaging and writing technical documentation of new releases for clients, achieving CI/CD practice.
- Offered customer service and support through Microsoft Teams for integrating and bug fixing on Apache Cordova; acquired critical thinking and communication skills.

### EY Singapore

Jan 2020 – Mar 2020

#### Software Engineer, Intern

- Enhanced tax computation efficiency by developing C# Windows Forms application on ASP.NET with Microsoft SQL Server Management.
- Completed 5 projects that included PDF data extraction, automated conversion of PDF documents to forms applications and vice versa, and tax form processing; heightened productivity of tax computation as a result.
- Acquired information literacy and adaptability skills as tax is new to me and research is needed for project understanding.

## LEADERSHIP & CO-CURRICULAR ACTIVITIES

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### Tchoukball Nanyang Technological University

Jul 2022 – Mar 2023

#### Vice-Captain

- Organized camps and activities for a 40-member club, handling planning and execution; co-managed the club with the Captain, overseeing training sessions and guiding new members.
- Attained 1<sup>st</sup> Runner-Up in both Singapore University Games 2023 and 10<sup>th</sup> Inter Tertiary Tchoukball Championships 2023.

## SKILLS

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**Programming:** HTML, CSS, JavaScript, Python, Java, C#, Swift, Kotlin, Dart, SQL

**Libraries and Frameworks:** React, Tailwind, Framer Motion, Three.js, Flutter, jQuery, Bootstrap, Apache Cordova

**Databases:** MySQL, PostgreSQL, Microsoft SQL Server, Firebase

**Clouds:** AWS, Azure

**Software Applications:** Figma, Visual Studio Code, Android Studio, Xcode, Jira

**Other Skills:** Git, Unity

## LANGUAGES

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**English** (*Full professional proficiency*), **Mandarin Chinese** (*Limited working proficiency*)