Last updated: April 12, 2025 Amir Nakhoda

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COURSE WORK

TERTIARY

Logic & Mathematics

Data Analytics

Computational Thinking

User Experience & Interface Design

Network Technology

IT Systems & Essentials

Database Application Development

Website Development

Data Structures & Algorithms

Game Modelling

Game Design

Game Development

Game Math & Physics

Game AI

Programming w/ Game Engines Mixed Reality Application Development

PROJECTS

Game Al Final Project

and Behaviour Trees, and an A* pathfinding algorithm using C#, Panda BT and Unity

Water & Buoyancy Implementation

A self-directed learning project where I implemented the physical characteristics of water into Unity using C#

Pac-Man Machine Learning Project

An independent learning project focused on reinforced machine learning and Alimplementation in Pac-Man under the Guided Learning Curriculum

AWARDS

2022 Edusave Certificate of Academic Achievement

Top 25% for good academic performance and conduct

2021 Director's List

Top 10% for excellent performance in the academic year 2020/2021

2020 Director's List

Top 10% for excellent performance in the academic year 2019/2020

2018 Edusave Award for Achievement. Good Leadership and Service

Top 15% for excellence in conduct, leadership, service and co-curricular activities

SKILLS

PROGRAMMING LANGUAGES

C# • Java • Python • Rust • HTML • CSS • JavaScript • MySQL • LaTeX • Lua • Powershell

TOOLS

Microsoft Word • Excel • PowerPoint • Microsoft Visual Studio • Adobe Photoshop • Illustrator • Premiere Pro • XD • Google Docs • Sheets • Slides • Unity • Maya • Git

DEVELOPMENT

Full-Stack Web • Mobile • Desktop

FDUCATION

TEMASEK POLYTECHNIC (TP) | School of Informatics & IT

Apr 2019 - Apr 2022

Jan 2014 - Dec 2018

Aug 2022 - Aug 2024

- Diploma with Merit in Game Design & Development (GDD)
 - Awarded to the Top 10% of the graduating cohort
- Cumulative Grade Point Average: 3.69/4.00

ST. PATRICK'S SECONDARY SCHOOL (SPS)

• Singapore Cambridge GCSE O Level Certificate

WORK FXPFRIFNCE

SINGAPORE POLICE FORCE | Airport Police Division

Patrol Officer

• To protect Singapore Civil Aviation against crime.

SUPREME COURT | Singapore Judicial College

Jul 2021 - Feb 2022

Project Executive Intern

- Designed and developed educational games to enhance learning of the school's modules, using C# and Unity
- Designed and developed an educational video to express the school's pedagogical concepts, using Adobe Premiere Pro, Illustrator & Photoshop.

Implemented Al using Finite State Machines CO-CURRICULAR ACTIVITIES

TP | GDD | Student Interest Group

President - Vice-President - Honorary Secretary

- Led a student-run club focused on organizing events to enrich GDD student life and support academic learning.
- Oversaw initiatives such as academic-support workshops and talent showcases, including a T-Shirt design competition.

SPS | National Cadet Corps (NCC) (AIR)

Jan 2015 - Dec 2018

Jan 2015 - Dec 2018

Apr 2019 - Apr 2022

1st Sergeant - 3rd Sergeant - Corporal - Lance Corporal

- Represented school in the 2017 National Day and International St. Patrick's Day Parade
- Represented school in the 2016 & 2017 NCC Annual Freestyle Drill competition
- Represented school in the 2016 HQ Annual Best Unit Competition and obtained the Silver Award

SPS | Prefectorial Board

Senior Prefect

- Served as a student leader and role model within the school community
- Provided support and guidance at key school events, such as Open House
- Facilitated camps including the Secondary 1 Orientation and Patrician Leadership Training Camp (PLTC)

VOLUNTEER EXPERIENCE

JAPANESE EXCHANGE PROGRAMME

120hrs - 2019

Organiser

- Hosted Japanese exchange students from KNIT.HI during their visit to Singapore
- · Accompanied and oriented students through key cultural, educational, and heritage sites in Singapore

COMMUNITY LABORATORY PROJECT

24hrs - 2018

Committee Member

- Co-led in a student initiated project, with the purpose to improve the well-being of the elderly at an old folks home
- Produced and published a book compiling the residents' stories and recipes to provide a means to foster connection with their families