

Wang Jiefan

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EDUCATION

National University of Singapore

Singapore

Bachelor of Computing, Focus in Software Engineering

Aug. 2021 – Present

- Current GPA: 4.26
- NUS GDG (Games Development Group) Member

NUS High School of Math. and Science

Singapore

Diploma w/ High Distinction

Jan. 2013 – Oct. 2018

- Honours in Physics and Computer Science, Majors in Chemistry and Mathematics
- Debate and Oratorical Society Executive Council Vice President
- Appventure (Computing Studies Interest Group) Contributor

PROJECTS

PySlidingWindow | *Python*

Aug. 2022 – Nov. 2022

- Hybrid lossless packet-based file transmission protocol.
- 15kbps (19% slowdown) at 40% chance of packet corruption and 40% packet loss.

Knuckleclone | *React, Git, Peer.js, Node.js*

Aug. 2022 – Present

- Web-based adaptation of the dice minigame from Cult of the Lamb (2022)
- Developed a full-stack responsive web application with Github Pages serving a REST API with React as the frontend, using PeerJS to broker P2P connections for multiplayer
- 1200 active unique users

Video Game Modding | *Unity, Blender, GIMP, ActionScript, JSON*

July 2018 – Present

- I reverse-engineer, modify and bug-fix old video games in my spare time.
- Involves static analysis and decompilation of game engine.
- The Banner Saga (2018 – Present) - 11,000 unique users
- Journey (2020 – Present) - 12,000 unique users
- War on the Sea (2021 – Present) - 14,000 unique users

EMButton | *Java, Android SDK*

Aug. 2016 – Aug. 2017

- Android app-based SOS panic button.
- Sends a custom GPS-tagged text message to emergency services without needing to power on.
- Code::XtremeApps:: Competition 2017 - Finalist

ACHIEVEMENTS

National Infocomm Competition - *Distinction*

2016

SiTF Awards - *Best Innovative ICM Student Project*

2016

Canadian Computing Competition (Senior) - *Distinction*

2018

DSO STAR Award - *Distinction*

2018

Singapore Pre-University Seminar - *Team Lead*

2017

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres, SQLite), JavaScript/JSON, Typescript, ActionScript, HTML/CSS

Frameworks: React, Node.js, Vue, Hugo, JUnit, WordPress

Tools: Git, Docker, CI/CD, Google Cloud Platform, VS Code, PyCharm, IntelliJ IDEA, IntelliJ DataGrip, Unity, dnSpy, Eclipse, Github Actions, Android SDK, Blender, GIMP

Libraries: pandas, NumPy, PyTorch, pwnTools, Matplotlib

MISCELLANEOUS

I am a Singapore Citizen. I am eligible for the **USSFTA H1B1 Visa**.