Wang Jiefan

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EDUCATION

National University of Singapore   Singapore
Bachelor of Computing, Focus in Software Engineering   *Aug. 2021 – Present*
- Current GPA: 4.17
- 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

Knuckleclone | *React, Git, Peer.js, Node.js*   Aug. 2022 – Present
- Developed a full-stack responsive web application with Github Pages serving a REST API with React as the frontend
- Web-based adaptation of the dice minigame from Cult of the Lamb (2022)
- Relay model: Using PeerJS to broker P2P connections for multiplayer
- 1200 unique users

3D Image Analysis of Multicellular Tumor Spheroids | *Python, Matplotlib*   July 2017 – Feb. 2018
- Computationally modelling and extracting features of imaged cross-sections of Multicellular Tumour Spheroids (MCTS) to correlate to drug response.
- Image planes were analyzed using CellProfiler to identify the MCTS and passed into custom-made modules to extract relevant information.
- Singapore Science and Engineering Fair (SSEF) 2018 – Bronze award

Video Game Modding | *Unity, Blender, GIMP, ActionScript, JSON*   July 2018 – Present
- I reverse-engineer, modify and bug-fix video games in my spare time.
- The Banner Saga (2018 – 2020) - 11,000 unique views
- Journey (2020 – Present) - 12,000 unique views
- War on the Sea (2021 – Present) - 14,000 unique views

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.

PySlidingWindow | *Python*   Aug. 2022 – Nov. 2022
- Hybrid lossless packet-based file transmission protocol.
- Decent speed @ 40% chance of packet corruption and 40% packet loss.

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
Code::XtremeApps:: Competition	2017

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres, SQLite), JavaScript/JSON, Typescript, ActionScript, HTML/CSS, Haskell
Frameworks: React, Node.js, Vue, Hugo, JUnit, WordPress
Tools: Git, Docker, 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