Wang Jiefan

nafeij.me | wng.jiefan@gmail.com | linkedin.com/in/wang-jiefan | github.com/Nafeij

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

EXPERIENCE

Software Engineer Intern   Singapore
Pinvest Pte. Ltd.   *May - July 2023*
  - Research cutting-edge AI developments. Integrate Llama 2 and Langchain, as well as optimizations such as streaming, pipelining and caching, into LLM service platform.
  - Triage bugs, propose features and submit codebase pull requests to mobile financial trading platform, utilizing technologies like Nestjs, Expo, Firebase, Testflight, Jest, GraphQL, MongoDB.

PROJECTS

PySlidingWindow | *Python*   Aug. 2022 – Nov. 2022
  - Hybrid lossless packet-based file transmission protocol.
  - 15kbps (19% slowdown) at 40% packet corruption and 40% packet loss.

Knuckleclone | *React, Git, Peer.js, Node.js*   Aug. 2022 – Present
  - Web-based adaptation of dice minigame from Cult of the Lamb (2022)
  - Developed a full-stack responsive web application with Github Pages serving REST API to React 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.
  - Conducted 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

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++, Go, Rust, SQL (Postgres, SQLite), JavaScript, 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, Selenium WebDriver

MISCELLANEOUS

As a Singapore Citizen, I'm eligible for the **USSFTA H1B1 Visa**.