

EDUCATION / SKILLS

University of Maryland College Park B.S. in Computer Science

- Graduating undergraduate **May 2020**, Potential combined MS in **May 2021** (accepted)
- 3.7 GPA**, Dean's List all semesters, Honors College

Relevant Coursework

- Cryptography, Machine Learning, Computer Vision, Data Science, Algorithms, Advanced Data Structures, Android Development, Object Oriented Programming, Linear Algebra, Statistics

Programming Languages

- Java, C#, Python, C, SQL, R, Javascript, HTML/CSS

EXPERIENCE

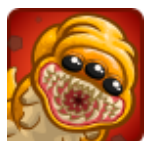
Susquehanna International Group, LLP Software Engineering Intern

Jun 2019 - Aug 2019

- Built in-house application for visualizing and controlling comprehensive build tests for a core options trading application.
- Built backend **SQL database** and **C# REST** webservice to handle test results.
- Rearchitected build environment to shorten website deployment time from **600 seconds** to **5 seconds** and asynchronously clean old builds from directory.
- Redesigned automated test result reporting to be configurable by environment.

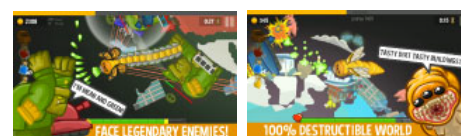
Melonius Games Founder, Game Developer

Dec 2011 - Present



"Caterpillars" <https://play.google.com/store/apps/details?id=ninja.qian.caterpillars>

- Mobile game for Android and iOS, with 40k+ downloads
- Custom physics engine, multithreaded destructible environment

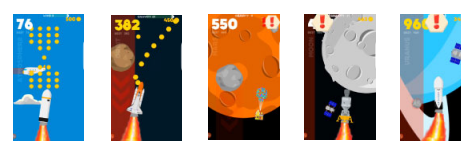


Dec 2017 - Feb 2018



"Liftoff" <https://play.google.com/store/apps/details?id=ninja.qian.Liftoff>

- Mobile game for Android and iOS
- Balance rocket runner game

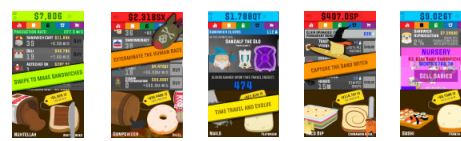


Jul 2016 - Aug 2016

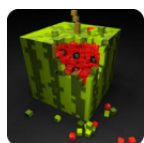


"Sandwich or ELSE" <https://play.google.com/store/apps/details?id=ninja.qian.Sandwich>

- Mobile game for Android and iOS
- Crazy sandwich idler, advanced menu system



Jun 2016 - Jul 2016



MelonCraft Network

- Built, designed, and operated a network of Minecraft servers for over 4 million unique players.
- Led internationalization team for Spanish, Portugese, and Mandarin with IP-based locale multiplexing.

Dec 2011 - Mar 2016

Yang Academy Math Teacher

Jun 2017 - Aug 2017

- Taught summer math classes of **30+ students** covering Pre-Algebra, Geometry, and Algebra I & II at Montgomery College

PROJECTS / ACTIVITIES

Hackathon Projects www.devpost.com/JerryGQian

Sep 2017 - Present

- Diction** - Won Best Hack for Social Good among 200 attendees. @HophacksFall18
Developed a mobile app that uses **text recognition** to improve reading comprehension.
Parsed wordnet datasets with Python scripts to generate complex dictionary with **100k** definitions/synonym relationships.
Implemented **Google's OCR API** to detect text.
- Gofor Analytics** - Developed a stock market prediction suite powered by **machine learning**. @HophacksSpring19
Prepared/generated ML input vectors from datasets of daily stock prices over the past 5 years.
Implemented the **Google NLP API** to give sentiment labels for news articles.
- PocDoc** - Developed a mobile app that improves communication between patients and doctors. @Bitcamp19
Created a beautiful **Flutter app** in dart and built cross platform live chat from scratch.
- Chroma** - Developed a mobile AR app that helps the colorblind distinguish colors with custom OpenGL shaders. @Bitcamp18
- Warp** - Developed mobile productivity app in Java that skews time to your advantage. @HophacksFall17

UMD Hyperloop Avionics Team

Sep 2017 - Present

- Competed in the **SpaceX Hyperloop 3 and 4 pod competition**.
- Designed and coded a robust control algorithm/state machine for pod in C which features fully configurable thresholds values.

FIRST Robotics Team Captain, Mentor

2013 - Present

- Won the **2014 North Carolina Regional** and advanced to the **World Championship**.
- Led and organized FRC team **4638** and **4288** each with of **30+ members** to design/build competitive robots.