

EDUCATION / SKILLS

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

- Graduating May 2020, Honors College
- 3.7 GPA, Dean's List Fall 2017, Spring 2018, Fall 2018, Spring 2019

Relevant Coursework

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

Programming Languages

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

EXPERIENCE

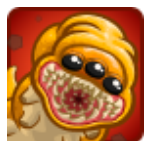
Susquehanna International Group, LLP Software Engineering Intern

Jun 2019 - Aug 2019

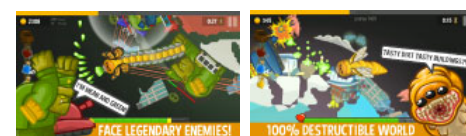
- Built in-house application for visualizing and controlling comprehensive build tests.
- Built backend SQL database and C# REST webservice to handle test results.
- Rearchitected build environment to shorten website deployment time from 600 seconds to 5 seconds and asynchronously clean old builds from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

Melonius Games Founder, Game Developer

Dec 2011 - Present



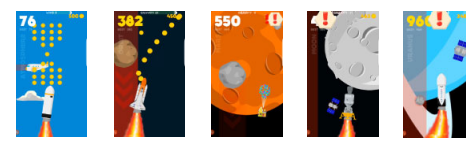
- "Caterpillidge"** <https://play.google.com/store/apps/details?id=ninja.qian.caterpillidge>
- Mobile game for Android and iOS, with 40k+ downloads
 - Custom physics engine, multithreaded destructible environment



Dec 2017 - Feb 2018



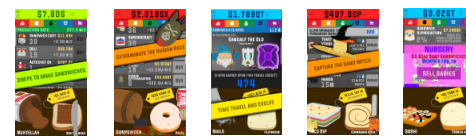
- "Liftoff"** <https://play.google.com/store/apps/details?id=ninja.qian.Liftoff>
- Mobile game for Android and iOS
 - Balance rocket runner game



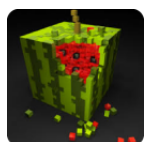
Jul 2016 - Aug 2016



- "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.
 - Largest server in Spanish speaking community.

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

- PocDoc** - Developed a mobile app that improves communication between patients and doctors. Created a beautiful **Flutter app** in dart and built cross platform live chat from scratch. @Bitcamp19
- Gofor Analytics** - Developed a stock market prediction suite powered by **machine learning**. 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. @HophacksSpring19
- Diction** - 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. Won Best Hack for Social Good. @HophacksFall18
- 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.
- Responsible for the pod's IMU, ambient pressure sensor, rotary encoder, and maxon motors.

FIRST Robotics Team Captain, Mentor

2013 - Present

- Led and organized FRC team **4638** and **4288** each with of **30+ members** and advanced to World Championship.
- Designed, CADed, built and programmed competitive robots to play annual game.