Peter Wang

(908) 392-5806 | wang.peter@columbia.edu | 309 W 111th St #10, New York, NY 10026

EDUCATION

Columbia University, New York, NY, M.S. in Applied Math   Aug '19 – May '20
- GPA: 4.11/4.00

University of Maryland (UMD), College Park, MD, B.S. in Computer Engineering   Aug '15 – May '19
- GPA: 3.96/4.00 Magna Cum Laude
- Banneker/Key Full Scholarship
- Quality Enhancement Systems and Teams (QUEST) Honors Program
- GRE: Math – 170/170 (97 %tile), Verbal – 168/170 (98 %tile)

EXPERIENCE

Volexity, *Software Engineering Intern*, Ellicott City, MD   Jun - Aug '19
- Built a Volatility plugin using Python that could decompress LZ77 and LZ77-Huffman compressed portions of physical memory for memory forensics analysis
- Researched Windows Subsystem for Linux (WSL2) internals so information from the subsystem could be gleaned from a host memory dump

Belvedere Trading, *Software Engineering Intern*, Chicago, IL   Jun - Aug '18
- Built a manual market data tool using React/Redux, Python, C++, and C# which multicasts simulated market data and uses the Black72 model to price options
- Worked on a project to automate VIX Opening Imbalance trades based on edge, demand, and volatility

DISH Network, *Software Engineering Intern*, Denver, CO   Jun - Aug '17
- Expanded and debugged Alexa interactivity with set top boxes in a team
- Wrote a Python program to constantly monitor for anomalies in the ElasticSearch database

LEADERSHIP

Consult Your Community UMD, *Vice President of Internal Affairs*, College Park, MD   Dec '15 - Jan '18
- Organized and mentored 25 students each semester as they provide pro bono consulting and analytics to local companies and organizations
- Spring 2015 – Consulted for Yaatra Ventures, a D.C.-based startup entering the sub-Saharan Africa energy industry
- Fall 2015 – Helped START, a UMD-led organization that hosts the world's largest terrorism database, increase cash flow

PROJECTS

Cutthroat Game, cutthroat.herokuapp.com – Python, asyncio   Dec '17 – Jan '18
- Created a multiplayer game server for the word game Cutthroat
- Used asynchronous programming to get concurrency, improving performance versus (Python) threading significantly

MeeshQuest - Java   Jan '18 – May '18
- Implemented a simple version of MapQuest for my data structures course using PMQuadtrees, PRQuadtrees, and treaps

SKILLS

Python (2 and 3), C, OCaml, Java, Ruby, Javascript, Git, GraphQL, Reverse Engineering, Linux internals
Hobbies: Swimming (UMD Captain, All-American Swimmer), Rock Climbing, Poker