Andrew Yan

Building the future,
one step at a time.

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Education

Columbia University — *Computer Science, Math*   *2020-2024*
Relevant coursework: Advanced Programming (systems programming course. Built a fully-functional web server in C serving static content), **Honors Math A/B** (proof-based multivariable analysis and linear algebra), **Data Structures and Algorithms**, **Machine Learning** (theory-based), **CodePath Cybersecurity, Modern Algebra** (abstract algebra), **Computer Science Theory**

Princeton High School   *2016-2020*
Relevant coursework: Linear Algebra, Multivariable Calculus, AP Calculus BC, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism, AP Computer Science, all 5's on AP exams

Skills

Web Development (React, Node.js, Flask, Django, SQL)   **Programming Languages** (Python, Javascript, Java, C)
Data Science (Scikit-learn, PyTorch, OpenCV, Beautiful Soup)   **Human Languages** (English, Spanish, Mandarin)
Cloud Computing (Heroku, AWS, Google Cloud)

Industry

US Army — *Cybersecurity Engineering Intern*   May 2021-Aug 2021
- Built adversarial machine learning system and a machine learning detection system for network traffic analysis
- Worked on web-based system attack vector visualization tool used as internal tool by cybersecurity team
- Demonstrated a proof-of-concept Docker and Kubernetes exploit

Quantime— *Business Development and Software Engineering*   Jun 2020-Feb 2021
- Developed, coded, and shipped keyboard shortcuts feature and filtering mechanism from ideation to implementation in React, Material UI, Typescript, and Django. My features are used in over 10,000 instances monthly
- Applied functional programming and built internal performance and speed optimizations and collaborated in an agile development setting using git

Personal Projects

WanderNYC (www.wandernyc.app) — *Co-founder*   July 2021-Present
- Building a live time event sourcing and itinerary generator using React, Javascript, Python, Flask, and MongoDB
- Applying NLP to generate event itineraries based on factors such as traveler preference, location, and time of day

Wallifornia MusicTech and E-Sports Hackathon- *Best E-Sports*   July 2020
- Built an e-sports analytics platform E-Insights using Node.js and web sockets utilizing sentiment analysis to analyze livestream comments in real-time (e-insights.ml)
- Won Best E-Sports Hack, competing against participants from 22 countries and won Leansquare Accelerator coaching

Columbia Undergraduate Math Modeling Workshop— *Team Lead*   Dec 2020-Feb 2021
- Worked in a team setting to build a stochastic agent-based model using Python and Keras and apply statistical methods such as synthetic minority oversampling technique, random forests, and random walk diffusion models
- Paper was awarded Honorable Mention out of 10,000+ teams at the international MCM 2021

GeoSafety— *Technical Co-founder*   Jul-Aug 2019
- Developed an iOS app and wristwatch combo in Swift that combats urban pickpocketing
- Awarded Best Prototype out of 15 teams at the Management and Technology Summer Institute (www.geosafety.ml)