

Andrew Yan

Building the future, one step at a time.



Personal Website: andrewyan200.github.io



[Github](#)



[LinkedIn](#)



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Skills

Web Development (React, Node.js, D3.js, Django, SQL)

Data Science (Scikit-learn, PyTorch, OpenCV, Beautiful Soup, math modeling)

Design (Adobe Photoshop, Lightroom, drone photography)

Programming Languages (Python, Javascript, Java, C, C++)

Human Languages (English, Spanish, Mandarin)

Industry

US Army— Cybersecurity Engineering Intern

May 2021-Present

- Cybersecurity at U.S. Army Combat Capabilities Development Command Data & Analysis Center

Almaworks Accelerator— Director of Almaworks Fellowship Sep 2020-Present

- Launched nationwide expansion to top undergraduate students in summer 2021, resulting in a cohort of fellows from schools such as Columbia, MIT, UPenn, and Princeton

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 control flow
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Personal Projects

Columbia Undergraduate Math Modeling Workshop— Team Lead

Dec

2020-Feb 2021

- Used various statistical techniques to model the spread of *Vespa mandarinia* (Asian giant hornet) invasive species across the U.S.
- 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, Monte Carlo simulations, and random walk diffusion models
- Paper was awarded Honorable Mention out of 10,000+ teams at the international MCM 2021. Paper accessed [here](#)

Wallifornia MusicTech and E-Sports Hackathon- Best E-Sports

July 2020

- Created 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 coaching sessions with Leansquare Accelerator

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)
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Education**Columbia University (2020-2024)**

- Computer Science - Math joint major, 3.87 GPA
- **Relevant coursework:** Advanced Programming (systems programming in C), Honors Math A/B (proof-based multivariable analysis and linear algebra), Data Structures and Algorithms, Machine Learning, CodePath Cybersecurity (web cybersecurity including IDOR, XSS, cookie and session-based attacks, DDoS, SQL injection, cryptography, user authentication, and more. Applied skills to CTFs designed by Facebook engineers and proof-of-concept exploit of Wordpress v4.2.0 using Oracle VirtualBox)