

Andrew Yan

Building the future, one step at a time.

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Website: <https://andrewyan200.github.io>

Github: [andrewyan200](https://github.com/andrewyan200)

Education

Columbia University — *Computer Science, Math* 2020-2024

Coursework: Advanced Programming, Machine Learning, Cryptography, Abstract Algebra, Data Structures and Algorithms, Honors Math A/B, Probability for Engineers, Codepath Cybersecurity, Analysis of Algorithms

Clubs: Blockchain at Columbia, Columbia Math Modeling Workshop, Columbia entrepreneurship club (CORE)

Oxford University — *Math and Philosophy* Spring 2023

Columbia Oxbridge Scholar. Focus on applied mathematics and ethics at St. Catherine's College.

Technical Skills

Programming Languages (Python, Golang, Typescript, Java, C) **Databases** (PostgreSQL, MySQL, MongoDB)

Full Stack Web Development (React, Node.js, Flask, Django) **Data Science** (SQL, Sklearn, OpenCV, BSoup)

DevOps (AWS (EC2, S3, EB, RDS), Google Cloud, Docker) **Human Languages** (English, Spanish, Mandarin)

Industry

Google — *SWE Intern, Google Cloud* Aug-Nov 2022

- Google Cloud backend in C++, New Products Introduction team under Engineering Productivity
- Building CLI tool in C++ to automate GCP's testing suite and half new product introduction time

Vimeo — *Backend Security Engineering Intern, Trust and Safety* Jun-Aug 2022

- Spearheaded a backend security tool to automate rating 20+ content moderation flags
- Designed, developed, tested, and deployed REST and gRPC API microservices in Golang, Docker, and MySQL
- Shipped to production and rates 17,500 videos daily

US Army — *Cybersecurity Engineering Intern, ML Intern Team Captain* May-Aug 2021

- Led team of 7 interns to build adversarial machine learning intrusion detection system analyzing 30,000+ network packets. Pitched team's findings to leadership
- Coded web-based system attack vector visualization tool used by cybersecurity team

Quantime (quantime.ai) — *Software Engineering Intern* Jun 2020-Feb 2021

- Shipped keyboard shortcuts feature and filtering mechanism in React, Material UI, Typescript, and Django
- Features are used in 10,000+ instances monthly

Personal Projects

WanderNYC — *Co-founder, Backend/DevOps Engineer* Jul 2021-Mar 2022

- Shipped a live time event sourcing and itinerary generator using React, Javascript, Python, Flask, and MongoDB
- Co-developed NLP-based itinerary recommendation engine, built backend, and deployed to web
- Won 3rd place and \$3k prize at Columbia Venture Competition

Couriers (<https://github.com/andrewyan200/couriers>) Jan 2022

- Coded a web app using Golang backend, PostgreSQL, AWS RDS cloud database, and deployed on AWS EC2

Columbia Undergraduate Math Modeling Workshop — *Team Captain* Dec 2020-Feb 2021

- Led team to build a stochastic agent-based model. Applied statistical and machine learning methods such as synthetic minority oversampling technique, random forests, and random walk diffusion models.
- [Paper](#) awarded Honorable Mention out of 10,000+ teams at international MCM 2021

Wallifornia MusicTech and E-Sports Hackathon — *Backend Developer* July 2020

- Built an e-sports analytics platform E-Insights using Node.js and web sockets applying sentiment analysis to analyze livestream comments in real-time (<https://github.com/andrewyan200/E-Insights>)
- Won Best E-Sports Hack and Leansquare Accelerator coaching, competing against participants from 22 countries