Andrew Yan

Building the future, one step at a time.

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Education

Columbia University — *Computer Science, Math*   *2020-2024*
Advanced/Graduate Coursework: Advanced Programming, Machine Learning, Cryptography, Abstract Algebra, Probability, Honors Math A/B, 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 mathematical finance, math modeling, and ethics.

Technical Skills

Programming Languages *(Python, Golang, Typescript, Java, C, C++)* **Databases** *(PostgreSQL, MySQL, MongoDB)*
Full Stack Web Dev *(React, Node.js, Django, AWS, GCP)*   **Data Science** *(SQL, Sklearn, OpenCV)*

Industry

Google — *Associate Product Manager Intern*   Jun-Sep 2022

Google — *Software Engineering Intern, Google Cloud*   Aug-Nov 2022
- Built command line interface extension in C++ to monitor new Google Cloud products
- **Automate reshaping 52 million entities** with a single CLI command, **shaving 20 engineering-hours per update**
- **Decrease update time by 83%** using concurrent transactions via internal APIs

Vimeo — *Backend Engineering Intern, Trust and Safety*   Jun-Aug 2022
- Spearheaded a backend security tool in Golang 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 Lab — *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
- Contributed to web-based system attack vector visualization tool in Amazon Web Services used by security team

Quantime — *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 $3k prize at Columbia Venture Competition

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, web sockets, and sentiment analysis to analyze livestream comments in real-time. Won Best E-Sports Hack, competing against participants from 22 countries