Andrew Yan

Building the future, one step at a time.

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Education

Columbia University — *Computer Science, Math, 3.75 GPA*   *2020-2024*
Coursework: Advanced Programming, Cryptography, Abstract Algebra, Data Structures and Algorithms, Honors Math A/B, Machine Learning, Probability for Engineers, Codepath Cybersecurity, Analysis of Algorithms
Clubs: Blockchain at Columbia, Columbia Math Modeling Workshop, Columbia entrepreneurship club (CORE)

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
- Building CLI tool in C++ to automate GCP's testing suite for new products and increase engineering productivity

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
- Worked on 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 tracking a courier directory using Go and Mux backend, PostgreSQL on AWS RDS(Relational Database Service) 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