Christopher Demirjian

https://github.com/cjd2186/christopher.github.io | cjd2186@columbia.edu | New York, New York

Education

Columbia University, Columbia College | New York, NY — Graduated May 2024
Bachelor of Arts, Computer Science and Mathematics — **GPA:** 3.71
Columbia University, Fu Foundation School of Engineering and Applied Science — Expected May 2025
Master of Science, Computer Science: Machine Learning
Relevant Coursework: Advanced Programming, Computer Networks, Number Theory, Artificial Intelligence, Databases, NLP, Cryptography, Cloud Computing, UI Design, Robotics, Discrete Time Models in Finance

Technical Skills

Programming Experience: Python, Java, C, PostgreSQL, TypeScript, HTML, C++, React, Duck DB, R, GO, P4
Software Experience: Bloomberg, Linux, Object Oriented Programming, Git, Pandas, Microsoft Office, jQuery, REST, FAST API, AWS, GCP, Docker, TensorFlow, PyTorch, PyBullet, Wireshark, Nix, Flask, Terraform.
Languages: Proficient in Spanish.

Professional Experience

IBM Accelerate Program, Remote Software Development — June 2022 - August 2022

- Developed front-end and back-end software fundamentals, versioning, application security, project management, coding assessment platforms, GitHub, and the software development lifecycle (SDLC).
- Successfully applied both analytical and project management skills such as critical thinking, collaboration, communication, and Agile work method.
- Programmed in JavaScript, React, styling, security, and Cloud Native Development.
- Earned IBM Cybersecurity Fundamentals Digital Credentials: entailed learning fundamentals in offensive and defensive perspectives within cyber security, risk management and legal/ethical components of security.

Undergraduate Projects

Cloud Computing, Columbia University
Graduate Level Course — September 2023 – December 2023

- Led a team of 7 students to develop a cloud-based application used by NFL fans. Deployment of website provided end users with real-time end statistical player/coach information lookups, up-to-date player newsfeed from various microservices, as well as user discussion forum.
- Project included the successful deployment of Google Cloud and AWS technologies, including Elastic Compute Cloud (EC2), GCP App Engine, Docker, Cloud Databases (RDS, DynamoDB) and CI/CD pipeline.
- Developed pub/sub-AWS Lambda function, IaaS Terraform script, and EC2 microservice with Fast API.

Yale NLP Lab, Yale University — May 2023 – August 2023
Undergraduate Research Assistant, Prof. Arman Cohan

- Collaborated with researchers to learn how to read, interpret and structure scientific research papers.
- Analyzed training and testing data sets from Large Language Models using HuggingFace.
- Built Python Streamlit website with team to display results found in L2CEval project.

Internet Real Time Lab, Columbia University — January 2023 – August 2023
Undergraduate Research Assistant, Prof. Henning Schulzrinne

- Investigated under PhD advisor on *P4 IoT Firewall Project*, a P4-enabled intelligent firewall that can capture and manipulate any packet headers, increasing the network intelligence to the maximum.
- Utilized P4 programming language and Wireshark to test and develop white-list only IoT firewall.
- Conducted comprehensive testing of IoT devices, analyzed IoT network traffic, and authored significant conclusions contributing to a research paper.

Leadership and Campus Involvement

Columbia Cyber Security Club (New York, NY) — October 2021 - Present

- Participated in educational security skills labs and Capture the Flag hacking challenge events.