

Christopher Demirjian

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EDUCATION

Columbia University

New York, NY

Master of Science, Computer Science: Machine Learning

Expected May 2025

- Relevant Coursework: Machine Learning, Design for Gen AI, Algorithms, Spoken Language Processing.

Columbia University, Columbia College

New York, NY

Bachelor of Arts, Computer Science and Mathematics

May 2024

GPA: 3.71.

- Relevant Coursework: Data Structures and Algorithms, Systems Programming, Networks, Number Theory, Artificial Intelligence, Databases, NLP, Cryptography, Cloud Computing, UI Design, Robotics, Quantitative Finance.

SKILLS

Programming Languages: Fluent in Python, Java, C, PostgreSQL, TypeScript, HTML, Duck DB, R, P4.

Frameworks and Tools: Proficient in TensorFlow, PyTorch, REST, Pandas, Flask, jQuery, React, FAST API.

Software: Expertise in Linux, Object Oriented Programming, Git, AWS, GCP, Docker, Wireshark, Terraform.

WORK EXPERIENCE

IBM Accelerate Program

Armonk, NY

Software Development Intern

Jun 2022 - Aug 2022

- Learned front-end and back-end software fundamentals in 5 projects incorporating Python, JavaScript, React, versioning, application security, project management, GitHub, and software development lifecycle (SDLC).
- Refined both analytical and project management skills such as critical thinking, collaboration, communication, and Agile work method through brainstorming and coding in groups of 5 developers.
- Programmed in JavaScript, React, styling, security, and Cloud Native Development.
- Earned intermediate IBM Cybersecurity Fundamentals Digital Credentials: entailed fundamentals in offensive and defensive perspectives within cyber security, risk management and legal/ethical components of security.

UNDERGRADUATE PROJECTS

Graduate Level Course

Sep 2023 - Dec 2023

- Led a team of 7 students to develop a cloud-based application used by NFL fans.
- Deployed cloud application to provide end users with 3 features: real-time end statistical player/coach information lookups, up-to-date player newsfeed from various microservices, and a user discussion forum.
- Leveraged Google Cloud and AWS technologies to host application, including Elastic Compute Cloud (EC2), GCP App Engine, Docker, Cloud Databases (RDS, DynamoDB) and CI/CD pipeline.
- Engineered pub/sub-AWS Lambda function to notify discord server, IaaS Terraform script to automate deployment of AWS instances, and EC2 microservice with Fast API to allow for player lookup.

Undergraduate Research Assistant, Yale NLP Lab

May 2023 - Aug 2023

- Collaborated with 5 researchers to learn how to read, present and structure scientific research papers.
- Analyzed training and testing data sets from 25 Large Language Models using HuggingFace.
- Built Python Streamlit website with team to display results found in L2CEval project.

Undergraduate Research Assistant, Columbia IRT Lab

Jan 2023 - Aug 2023

- Investigated under PhD advisor on P4 IoT Firewall Project, an intelligent firewall implemented in P4, capturing and manipulating packet headers to detect, divert and drop malicious traffic in real time.
- Utilized P4 programming language and Wireshark to test 10 devices and construct white-list only IoT firewall.
- Conducted comprehensive testing of 10 IoT devices, analyzed IoT network traffic of over 30k packets, and authored significant conclusions contributing to a research paper.

LEADERSHIP AND CAMPUS INVOLVEMENT

Columbia Cyber Security Club

New York, NY

General Body Member

Oct 2021 - Present

- Sharpened security skills through interactive labs and Capture the Flag hacking challenge events.