

Christopher Yoon

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EDUCATION

Columbia University

New York, NY

B.A. Computer Science (GPA: 3.89)

Sep 2020 – May 2024

Selected Coursework: († indicates expected coursework for Fall 2022)

Graduate Operating Systems†	Software Verification†	Distributed Systems†	Compilers†	Operating Systems
Parallel Functional Programming	Database Systems	Artificial Intelligence	Real Analysis I	Abstract Algebra I&II

EXPERIENCE

Riot Games

(Remote) LA, CA

Software Engineer Intern, Live Operations Engineering - Incident Management Team

May 2022 - Present

- Built a GitOps config manager to improve cross-team collaboration on operating Riot's service monitoring systems
- Built a CI/CD pipeline to deploy new configs to monitoring systems and execute backups and rollbacks at crash
- Refactored internal API client for the BigPanda alert monitoring system to be aligned with industry best practices
- Technologies used: Python for GitOps infrastructure and API Client; Docker and Jenkins for CI/CD pipelines

Columbia University Dept. of Computer Science

New York, NY

Undergraduate Teaching Assistant

Jan 2022 – Present

- Selected as TA for: Artificial Intelligence (Masters-level), Fundamentals of Computer Systems (Undergrad-level)
- Organized and ran recitations on writing clean Python code for AI development for 300+ students
- Ran weekly office hours to help peers learn assembly code, applied probability, reinforcement/supervised learning

Undergraduate Deep Learning Researcher

Aug 2021 – Present

- Surveyed and reproduced algorithms for data valuation (how to enumerate the worth of each data point)
- Building a distributed data valuation system for large scale ML training, advised by Prof. Junfeng Yang

Faikerz

(Remote) Seoul, Korea

Software Engineer

May 2021 – Nov 2021

- Rewrote core image processing engine to incorporate feature embeddings, improving retrieval runtime by 60%
- With the improvements above, built clustering engine for brand-specific counterfeit listings on E-commerce sites

Medipixel

Seoul, Korea

Machine Learning Engineering Intern

May 2020 – Aug 2020

- Built distributed training framework for company's open-source ML library, accelerating ML in compute clusters
- Designed and implemented simulator and reinforcement learning solution for 3D medical image alignment

SKILLS

Languages: Python, Go, C, Haskell, TypeScript, Elixir

Technologies: PyTorch, Tensorflow, SQL, Postgres, Flask, React, Linux, Docker, Jenkins

SELECTED PROJECTS

codetgt.io [Go, Typescript, React]: Web-based Real-Time Collaborative Code Editor

[Github]

- Built a real-time collaborative code editor that also supports text and voice chat between users (in progress).
- Wrote a edit synchronization library and back-end server in Go, with the web front-end in Typescript/React

Linux Kernel Hacking [C, Linux]: Projects from Operating Systems Coursework

- Built an Linux in-kernel **concurrent key-value store**, **process scheduler**, **file system** with 2 teammates
- Built a **highly-concurrent static web server**, and **linux system-calls for memory management**

RLcycle [Python, PyTorch, ZeroMQ]: Distributed Reinforcement Learning Agents Framework

[Github ★: 240+]

- Implemented 12 key RL algorithms and rigorously tested on Atari games (masters Atari Pong in under 12 minutes).
- Incorporated parallel and distributed (Ape-X) learning architecture, using Ray-distributed and ZeroMQ