

CHRISTOPHER NIU

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EDUCATION	University of California, Berkeley <i>Berkeley, CA</i>		Aug 2017 - Dec 2019
	Bachelor of Arts in Computer Science Distinction in General Scholarship, GPA: 3.78/4.00		
	Thomas Jefferson High School for Science and Technology <i>Alexandria, VA</i>		Sep 2013 - Jun 2017
COURSES	Machine Structures	Computer Security	
	Efficient Algorithms and Intractable Problems	Introduction to Machine Learning	
	Principles and Techniques of Data Science	Operating Systems and System Programming	
EXPERIENCE	Amazon, Prime Video <i>Seattle, WA</i>		May 2020 - Present
	Software Development Engineer I		
	- Worked on the design and implementation of a large-scale quality check orchestration service for Prime Video content.		
	- Created an aggregation technique to process large quantities of quality check validation results to surface a comprehensible description of quality checks to partners and indicate whether their content can be auto-corrected or requires re-delivery.		
	- Communicated with external teams from UK and India to integrate new quality check validators to the orchestration service.		
	- Developed crucial mechanisms for operational excellence within the team by creating new metrics, setting and adjusting alarms, and writing a script to backfill missed data.		
	- Technologies used: AWS (LAMBDA, DYNAMODB, S3, SQS, STEP FUNCTION, API GATEWAY) .		
	UC Berkeley, EECS Department <i>Berkeley, CA</i>		Aug 2019 - Dec 2019
	Undergraduate Student Instructor		
	- Worked as a teaching assistant for COMPSCI 161, the Computer Security course at UC Berkeley.		
SKILLS	Amazon, Prime Video <i>Seattle, WA</i>		May 2019 - Aug 2019
	Software Development Engineer Intern		
	- Built a face clustering service for use in various asset enrichment projects, which involved finding, implementing, and optimizing a suitable clustering algorithm (Chinese Whispers).		
	- Technologies used: NUMPY, AWS (SAGEMAKER, ECR, S3), and DOCKER .		
	MITRE, Data Engineering and Biometrics Department <i>McLean, VA</i>		Jun 2018 - Jan 2019
	Biometrics Intern		
	- Developed a crowd anomaly detection component module using Gaussian mixture models for a video-processing decision framework.		
	- Technologies used: NUMPY, OPENCV and SCIKIT-LEARN .		
	LANGUAGES	Java, Python, C, SQL, JavaScript	
	FRAMEWORKS	React, Django, NumPy, pandas, scikit-learn	
PROJECTS	TOOLS	Git, AWS Lambda, AWS DynamoDB, AWS S3	
	Online Board Games		
	- Built an online platform for playing various board games remotely with friends.		
	- Technologies used: REACT, DJANGO, CHANNELS (WEBSOCKETS) .		
	End-to-End Encrypted File Sharing System		
	- Designed and implemented a file sharing system that protects user privacy.		
	- Technologies used: GOLANG .		