

Allen Cheng

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EDUCATION	University of Maryland, College Park <i>College Park, MD</i> <i>Bachelor of Science, Computer Science. Bachelor of Science, Mathematics.</i> <i>Minor, Business Analytics. Honors College, President's Scholarship</i>	<i>Dec 2019</i> GPA: 3.85/4.00
WORK EXPERIENCE	Airbnb, Inc. <i>Software Engineer</i> <i>Software Engineer Intern</i>	<i>Seattle, WA</i> <i>Seattle, WA</i> <i>Apr 2020 - Present</i> <i>Jun 2019 - Aug 2019</i>
	<ul style="list-style-type: none">• Designed graph relationship-based features for anti-money laundering machine learning model.• Implemented end-to-end ETL pipeline to export graph features on daily basis in Airflow. Paved system infrastructure using Spark Scala for iterative future development of additional graph features.• Measured precision rate for new model features to be 50.0%, up from the existing model precision of 21.5%.	
	Lyft, Inc. <i>Software Engineer Intern</i>	<i>San Francisco, CA</i> <i>Sep 2018 - Dec 2018</i>
	<ul style="list-style-type: none">• Evaluated quality of third party realtime traffic data as ingested into rideshare ETA traffic pipeline.• Practiced the data analysis lifecycle of implementing a pipeline in Apache Spark and Flink to ingress realtime data, using a trained machine learning model to score the data, and building a report with interactive visualizations.• Implemented a Golang library to translate geospatial location data given translation rules sourced from a configuration system.	
	Facebook, Inc. <i>Software Engineer Intern, Instagram</i> <i>Software Engineer Intern</i>	<i>New York, NY</i> <i>Seattle, WA</i> <i>Jun 2018 - Aug 2018</i> <i>Sep 2017 - Dec 2017</i>
	<ul style="list-style-type: none">• Migrated A/B experimentation platform to use a more robust configuration distribution and storage solution.• Integrated internal infrastructure tooling within Nuclide, an open-source developer environment for web and native mobile development built on top of the Atom text editor, used by 87% of all Facebook developers.• Initiated CPU profiling and trace collection from Nuclide's users to analyze Nuclide's performance data in production. Built reports and data feeds to drive optimizations for a sleeker UX using pipelines with Python.	
	AeroFS <i>Software Engineering Intern</i>	<i>Palo Alto, CA</i> <i>May 2017 - Aug 2017</i>
	<i>Y Combinator, Andreessen Horowitz backed startup building an enterprise file sync and share solution.</i> <ul style="list-style-type: none">• Implemented scalable backend services for Amium, a collaborative document-based chat platform that transforms files into real-time activity feeds and conversations. Programming in Go and Java.• Led the design of the scalable architecture of the data transformation ETL pipeline for Ruby on Rails application.• Facilitated the analytics collection pipeline and using Elasticsearch to analyze data trends in user behavior using business intelligence to make informed marketing and product decisions.	
	University of Maryland - College Park <i>Student-Taught Course Facilitator</i> <i>Undergraduate Teaching Assistant</i>	<i>College Park, MD</i> <i>College Park, MD</i> <i>Jan 2018 - Dec 2019</i> <i>Jan 2017 - May 2019</i>
	<ul style="list-style-type: none">• Designed and taught CMSC389K: Web Development w/ Node.js and CMSC389O: The Coding Interview.• Synthesized a course curriculum and independently planned all lecture material and assignments.• Led recitation classes to discuss and reinforce lecture material for CMSC216 - Introduction to Computer Systems.• Obtained a evaluation rating of 3.92/4.00 from students for "overall effective teacher," compared to department average of 3.20/4.00.	
	Asymmetrik, Ltd. <i>Software Engineering Intern</i>	<i>Annapolis Junction, MD</i> <i>May 2016 - Jan 2017</i>
	<ul style="list-style-type: none">• Developed webapp components of <i>WildFire</i>, a platform for streaming Twitter analytics with MongoDB, Angular, and Node.js. Configured multi-node Amazon EC2 clusters on AWS with Red Hat Ansible.• Piloted an ad hoc data analytics system with Apache Zeppelin notebooks utilizing Spark and Elasticsearch.	
	The Johns Hopkins University Applied Physics Laboratory <i>Software Engineering Intern</i>	<i>Laurel, MD</i> <i>Sep 2014 - Aug 2015</i>
	<ul style="list-style-type: none">• Developed a command line interface in Java for <i>Socrates</i>, a system for scalable graph data analytics with parallel processing. Significantly improved developer productivity and its user-friendliness.• Created a technique for internal analysis of the effectiveness of employee-to-employee interaction within the same department versus within different departments.	
LANGUAGES	<i>Professional</i> Java, Python, Scala	<i>Proficient</i> C, Golang, JavaScript, PHP, Ruby
		<i>Basic</i> OCaml, R