ZACHARY BERGER

Z zackberger.com **Q** zackeberger

in linkedin.com/in/zackeberger

Graduating CS major with varied industry experience looking for role as applied scientist, data scientist, or ML engineer. I have diverse interests including computer vision, quantum computing, bioinformatics, and autonomous music creation.

EDUCATION

2018 – 2022 University of California, Los Angeles (UCLA)

4.00 GPA | B.S. candidate in Computer Science, Mathematics concentration.

Courses - Operating Systems, Data Structures & Algorithms, Intro to ML, ML in Bioinformatics, Quantum Computing, Deep Learning & Neural Networks, Network Fundamentals, Real Analysis, Linear Algebra, Probability, Multivariable Calculus, Discrete Math.

MODE EXPEDIENCE

WORK EXPERIENCE	
2021	Amazon, Seattle – Software Engineering Intern
	 Designed and built a native AWS application to supply up-to-date login information
	for multi-factor authentication challenges.
	 Obtained a detailed understanding of AWS services (i.e., compute & storage)
	to make intelligent design decisions in a cloud computing environment.
2021	Tesla , San Francisco – <i>Data Science Intern</i>
	 Wrote and scaled a data quality detection algorithm using Scala to operate on Tesla's
	multi-petabyte vehicle dataset.
	 Program ensures data robustness in Tesla's Insurance & Prognostics services.
	 Built data pipeline using Airflow to periodically deploy algorithm on a
	distributed Spark cluster, then update results/visualizations in Superset.
2020-	UCLA Vision Lab, Los Angeles – Research Intern
	 Developed novel algorithm to optimize adversarial attacks against stereo matching
	networks. Showed robust neural network architectures for depth prediction.
	 Aided with experimental design and led project implementation.
2019	MobiTV, San Francisco – Software Engineering Intern
	 Built a multithreaded developer app for scalable management of many Git repos.
	 Automated configuration of Varnish caching software.
	 Set up CI/CD workflow using GoCD. Added fully automated testing and
	developed a separate program for rapid generation of new tests.
2015	INTL FCStone, New York City — Research Intern
	 Researched and reported on the implications of Green Bonds for a Fortune 500
	financial services company. Shadowed operations of each department.
PROJECTS	
2020	Quantum Computing
	 Implemented 6 quantum algorithms in Cirq and Qiskit. Deployed and ran code on
	several IBM QCs and Google Sycamore, with extensive experimental analysis.
2020	Predicting Synapse Connections
	 Applied classical ML methods to predict synapse connections in fly brain structure.

TECHNICAL SKILLS