

Education	<b>UC Berkeley</b>	
	<i>M. Eng</i> in EECS – Data Science and Systems	Aug 2019 - Present
	Recipient of the <i>Fung Excellence Scholarship</i>	
	<i>B.A</i> in CS, GPA: 3.87	Aug 2015 – May 2019
Internships	<b>Amazon Web Services</b> , Seattle	May – Aug 2018
	Wrote an internal Python service using AWS API Gateway and Lambda that performs queries, aggregations and analysis over ~20 AWS Elasticsearch clusters	
	<b>ClearScore</b> , London	May – Jul 2017
	Wrote a microservice extraction tool in Scala, using Akka Streams to optimize performance; also worked on a project to run the full tech stack on local dev machines using Docker containers.	
Research	<b>Adept Lab (BAIR)</b> , Berkeley	Aug 2019 - Present
	Working on methods for large-batch distributed training of neural networks, using Hessian-guided optimization and adversarial training	
	<b>Berkeley Institute of Data Science</b> , Berkeley	Oct 2018 – May 2019
	Developed 3D CNN and ConvLSTM-based models to segment brain MRI images and detect tumors	
Projects	<b>Soccer analysis:</b> Built a tool using OpenCV to track soccer players, estimate their speeds and distances covered, and visualize their defensive line as a convex hull / polygon.	
	<b>Pixel2Mesh:</b> In a group of 4, reimplemented the Pixel2Mesh paper in PyTorch, that converts an RGB image of an object into a 3D Mesh using a mix of regular and graph convolutions.	
	<b>Text summarization:</b> As part of the Data Science Society, used different word/sentence embeddings (Word2Vec, Skip-Thoughts) with K-means clustering to summarize financial reports from the SEC	
	<b>Deep RL:</b> Implemented various reinforcement learning algorithms (Policy gradients, Deep Q-learning, Model Predictive Control) in TensorFlow for a range of Gym / Mujoco environments.	
	<b>Compilers:</b> In a team of 4, wrote a compiler for a statically typed version of Python that converted it to C++ after lexing, parsing, type-checking and optimization.	
Languages / Frameworks	<b>Proficient:</b> Java, Python, Git, Latex, Keras	
	<b>Intermediate:</b> Scala, TensorFlow, PyTorch, AWS, GCP, NumPy, Docker, Elasticsearch, OpenCV	