Sae (Jacob) Lee

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Education

Carnegie Mellon University	**Master of Information Systems Management**	Aug 2019 – Dec 2020
	Areas of Focus: Machine Learning, Computer Science, Business	Pittsburgh, PA
	GPA: 3.67/4.0	
Relevant Coursework:	Intro to Deep Learning (TA, A+), Reinforcement Learning, (Non)-Convex Optimization (A-), Computational Neuroscience (A+), Distributed Systems, R&D Management, Finance, Agile	
Washington University in St. Louis	**B.A. Marketing, Chinese**	Aug 2014 – Dec 2018
	Minor in Computer Science	St. Louis, MO
	GPA: 3.5/4.0	
Relevant Coursework:	Intro. to Machine Learning, Cloud Computing for ML, Data Structures and Algorithms, Linear Algebra, Statistics II	

Professional Experience

ResQ	**Machine Learning Scientist**	Dec 2020 - Present
	- (Interim role; will adjust commitment here according to future employer's preferences)	(Remote)
	- Johns Hopkins University supported startup developing a Portable Electronic Stethoscope (PES) with the latest hardware, Deep Learning (DL), and Internet of Things (IoT).	
	- Physical prototype finished, currently developing ML models for detection of lethal arrythmia.	
Carnegie Mellon University	**Teaching Assistant (11-785 Intro to Deep Learning)**	Jun 2020 – Dec 2020
	- Wrote 4 homework assignments based on the math and programming of deep learning libraries like PyTorch	Pittsburgh, PA
	- Delivered two recitation lectures on Matrix Calculus and Backprop	
	- Answered 3400+ student questions on online platform Piazza	
Bosch USA	**Data Mining Intern**	Summer 2020
	- ML engineering for Bosch's Cloud Services R&D division	Pittsburgh, PA
	- Built system that tracks and evaluates Social Distancing for retail stores. Based on Computer Vision positioning of customers	
	- Researched, selected, and implemented state-of-the-art trajectory compression algorithm. Projected to reduce data volume by 15x	
John Deere	**Product Planning Intern**	Summer 2017
	- Business analytics using R, SQL, and VBA	Waterloo, IA
Washington University in St. Louis	**Research Assistant**	Aug 2016 – May 2017
	- Performed text web scraping and data analysis tasks with R	St. Louis, MO

Awards & Scholarships

MISM Merit Scholarship (CMU) – 50% of tuition for all semesters	Fall 2019 – Fall 2020
Dean's List (CMU, Wash U) – Cumulative GPA of 3.5 or above	Fall 2018, Fall 2020

Skills

Coding Languages: Python (3 years), Java (4 years), SQL (3 years), MATLAB (2 years), R (2 years), Spark (1 year)
Software/Libraries: PyTorch, TensorFlow, Amazon Web Services (AWS), Pandas, NumPy, SQL, Linux, Git, Microsoft Office
Languages: English (Native), Korean (Fluent), Chinese (Professional)