

Sae (Jacob) Lee

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Education

Carnegie Mellon University	Master of Information Systems Management Areas of Focus: Machine Learning, Computer Science, Business GPA: 3.67/4.0	Aug 2019 – Dec 2020 Pittsburgh, PA
	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 Minor in Computer Science GPA: 3.5/4.0	Aug 2014 – Dec 2018 St. Louis, MO
	Relevant Coursework: Intro. to Machine Learning, Cloud Computing for ML, Data Structures and Algorithms, Linear Algebra, Statistics II	

Professional Experience

ResQ	Machine Learning Scientist - Lead ML scientist for a Johns Hopkins University supported startup developing a Portable Electronic Stethoscope (PES) with the latest hardware, Deep Learning (DL), and Internet of Things (IoT). - Prototype design already finished, now working with manufacturers to develop physical prototypes, and planning clinical trials with JHU. - Currently developing ML models for detection of lethal arrhythmia.	Dec 2020 - Present (Remote)
Carnegie Mellon University	Teaching Assistant (11-785 Intro to Deep Learning) - Wrote 4 homework assignments based on the math and programming of deep learning libraries like PyTorch - Delivered two recitation lectures on Matrix Calculus and Backprop, also holding office hours and answering online questions - Answered 3400+ student questions on online platform Piazza	Jun 2020 – Dec 2020 Pittsburgh, PA
Bosch Security Systems	Data Mining Intern - ML engineering for Bosch's Cloud Services R&D division - 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	Summer 2020 Pittsburgh, PA
John Deere	Product Planning Intern - Business analytics using R, SQL, and VBA	Summer 2017 Waterloo, IA
Washington University in St. Louis	Research Assistant - Performed text web scraping and data analysis tasks with R	Aug 2016 – May 2017 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)