

Johnson Lam

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Education

Boston University	M.S. Computer Science	January 2016 - December 2017
	<ul style="list-style-type: none">• Related Courses: Data Mining, Distributed Systems, Data Analytics, Machine Learning, Statistics• Course Assistant: CS 131 Combinatoric Structures (Fall 2017)• Advisor: Prof. Babis Tsourakakis	
Boston University	B.A. Computer Science	September 2013 - December 2016
	<ul style="list-style-type: none">• Achievements: Top 10% of in-class Kaggle competitions, Dean's List	

Experience

Software Engineer	Soroco , Boston, MA	January 2018 - Present
	Developing models for extracting data hierarchies (word, key-value pair, section) from document scans	
	<ul style="list-style-type: none">• Responsible for end-to-end project life cycle: research, experiment, evaluate, productize• Contributing to custom synthetic data generator for training models using <i>NumPy</i>, <i>OpenCV</i>, <i>Pillow</i>• Developing tools to automate evaluation and image processing using <i>Scikit-image</i>, <i>Scikit-learn</i>• Presenting research papers bi-weekly to the team on various deep learning topics	
Project Manager	ChatrHealth , Kolkata, India	July - August 2017
	Launched a mobile application at Narayana Health Hospital to help improve patient safety during surgery	
	<ul style="list-style-type: none">• Worked with surgical team to incorporate application into existing workflow of the operating room• Reduced anesthesia adverse events and unplanned return to surgery by 40% and 32.2%, respectively	
Software Engineer Intern	GE Digital , Foxborough, MA	May - August 2016
	Developed tools utilizing GE's Predix platform for analyzing and operating IoT devices	
	<ul style="list-style-type: none">• Implemented <i>Elasticsearch</i> to demonstrate its viability as a real time search engine on data streams• Built application to display job progress across a client manufacturing site to improve floor visibility	

Projects

Directed Study <i>Microsoft Sponsored</i>	Master of the Conversation	June - August 2017
	<ul style="list-style-type: none">• Investigated different approaches for chatbots to engage in goal-oriented conversations• Implemented and presented two methods: Facebook's bAbI project and Microsoft's LUIS framework	
Distributed Systems	Raft Consensus Algorithm	January - May 2017
	<ul style="list-style-type: none">• Built a fault-tolerant key-value storage from bottom-up using Raft as a consensus protocol in <i>Golang</i>• Learned intricacies of distributed systems, including performance, fault-tolerance, and consistency	
Data Mining	Predicting Amazon Purchases and Rating	September - December 2016
	<ul style="list-style-type: none">• Predict an item's star rating using k-means clustering on sentiment analysis scores of user comments• Built a recommender system using collaborative filtering to predict if a user would purchase an item	

Publication

ECML-PKDD 2018	<i>Risk-Averse Matchings over Uncertain Graph Databases</i> . Charalampos E. Tsourakakis, Shreyas Sekar, Johnson Lam , Liu Yang.
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Technical Skills

Languages	(proficient) Python, (familiar) Golang, Java
Software	NumPy, OpenCV, Pillow, PyTorch, Scikit-image, Scikit-learn, Linux, Git