Spandan Bemby

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EDUCATION

MASC
Computer Engineering
University of Toronto
May 2014 - September 2016
Thesis: Distributed orchestration of heterogeneous resource types over public and private clouds
Courses: Software-defined Networking, Random Processes, Convex Optimizations, Machine Learning, System Modelling

BASC
Computer Engineering
University of Toronto
September 2009 - April 2014
Selected courses: Operating Systems, Distributed Systems, Algorithms, Computer Networks

SKILLS

Advanced
Python
Intermediate
Linux (networking), JavaScript, Java, OpenStack, Ansible, Docker, AWS (Boto3)
Novice
Spark, SQL (PostgreSQL), Kafka, Elasticsearch

VOLUNTEERING

TDSB TUTORING
Tutor
September 2015 - May 2016
Tutored high school students on calculus and probability

PARKDALE MENTORSHIP
Mentor
February 2015 - April 2015
Mentored and discussed prospective career options with high school students

EXPERIENCE

INSIGHT DATA SCIENCE | Data Engineering Fellow
Spark (Batch, Stream), Elasticsearch, Kafka
September 2016 - Present
- Designed a platform to give runners real time feedback on how their instantaneous speeds compare with other users'
- Utilized Spark for batch and real time processing, Elasticsearch for geospatial queries, and Kafka for ingestion

UNIVERSITY OF TORONTO | Research Assistant
Python, OpenStack, Docker, AWS (Boto3)
May 2014 - September 2016
- Created an advanced orchestration platform with support for: 1) arbitrary L2 networks (overlays), 2) software-defined networking 3) multiple public and private clouds, 4) containers, and 5) bare metal servers
- Utilized linux-network stack, Open vSwitch, Ryu, Docker, OpenStack (Heat), Boto3, and Ansible

LOCALIUM | Developer
JavaScript (MEAN)
February 2015 - August 2015
- Created an online marketplace for used clothing, electronics and textbooks
- Admitted to university incubator and received $10,000 in funding

DEEP SUMMER ACADEMY | Instructor
JavaScript (MEAN)
July 2015
- Taught high school students basics of web development

HELPKISAAN | Developer
JavaScript (MEAN)
December 2014 - April 2015
- Developed a crowdlending platform for Indian farmers. Submission for Internet.org India challenge

BLACKBERRY | Software Developer
C++
January 2013 - April 2013
- Developed IMSI based SIM detection for Mobile Voice System

IBM | Software Developer
JavaScript (Dojo)
September 2012 - December 2012
- Developed UI widgets for a graphical tool for modelling business processes