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, 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 data platform to provide runners real time feedback
- 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

- Online marketplace for used clothing, electronics and textbooks
- Admitted to university incubator and received $10,000 in funding

HELPKISAAN | Developer
JavaScript (MEAN)
December 2014 - April 2015

- 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

TEACHING

DEEP SUMMER ACADEMY | Instructor
JavaScript (MEAN)
July 2015

- Taught a class of high school students basics of web development