

# 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