

Spandan Bemby

spandanb.github.io
spandan.bemby@mail.utoronto.edu | 647.991.6504

EDUCATION

UNIVERSITY OF TORONTO

MASc, COMMUNICATIONS GROUP

Expected May 2016 | Toronto

Candidate under Professor Alberto Leon-Garcia's supervision

BASc IN COMPUTER ENGINEERING

May 2014 | Toronto

Graduated with Honors

Faculty of Applied Science and Engineering

Cum. GPA: 3.60 / 4.0

LINKS

Github:// [spandanb](#)

LinkedIn:// [spandan](#)

COURSEWORK

GRADUATE

Random Processes

Software Defined Networking

System Modelling and Analysis

Convex Optimizations

Stochastic Networks

UNDERGRADUATE

Operating Systems (96%)

Computer Networks (84%)

Engineering Economics (90%)

Internetworking (85%)

Distributed Systems (96%)

Algorithms (89%)

Computer Sys Programming (87%)

SKILLS

PROGRAMMING

Over 5000 lines:

Java • JavaScript • Python • Rails (Ruby)

Over 1000 lines:

C • C++

Familiar:

Matlab • Octave • HTML • CSS • PHP

Tools:

Git • vim • Eclipse

RESEARCH

SAVI

Fall 2014

Worked on an overlay system that orchestrates creation of overlay networks and allows live migration of services. Publication submitted.

EXPERIENCE

APS105 | COMPUTER FUNDAMENTALS

Fall 2014

Introductory course on programming using C

Responsible for:

- marking and helping students during lab sessions
- conducting tutorials
- marking midterm and final exams

SAVI | UNIVERSITY OF TORONTO, MASc

PYTHON (DJANGO)

Summer 2014

- Presented an introduction to SAVI to 50 people during the annual workshop
- Updating existing Django (Python) Web Portal to work with new deployment

SAVI | UNIVERSITY OF TORONTO, NSERC USRA

PYTHON, PUPPET

Summer 2013

- Part of the Smart Applications on Virtual Infrastructure (SAVI) Testbed Team-working on expanding capabilities of Openstack cloud computing framework to support virtual Software Defined Infrastructure (SDI).
- This required better management of an increasing number of computation resources.
- Researched and deployed systems to be used with existing infrastructure for automatic and centralized management.

BLACKBERRY | MOBILE VOICE SYSTEM, SOFTWARE DEVELOPER

C++

Winter 2013

- Developed features and debugged issues for the Mobile Voice System, which provides access to desk phone features on smart phones.
- Migrated existing software from Java to C++, while improving system to be more robust and extensible

IBM | BUSINESS PROCESS MANAGEMENT, SOFTWARE DEVELOPER

JAVASCRIPT (DOJO)

Fall 2012

- Worked on graphical tools that modelled business processes.

MYPLANET DIGITAL | WEB APPLICATION DEVELOPER

HTML, CSS, JAVASCRIPT, PHP

Fall 2012

- Designed and implemented features on web applications developed in Drupal CMS.
- Developed and executed a test plan to ensure the deliverables worked correctly.

PROJECTS

STATIC ANALYZER

September 2014-Present

<https://github.com/spandanb/static-analyzer>

- Tool that does static analysis on a python project to create an abstract graph that represents the project.
- The graph can be queried and visualized, to show relationships between modules, classes, functions.
- Intended to help someone get up to speed on a mature project.

KISS MY APP - WILLIAM OSLER HEALTH SYSTEM

December 2013 - February 2014

Developed an app for iOS that allowed doctors and patients to track patients' diet and exercise in order to prevent readmittance.

MINRWAVE

Co-FOUNDER (RAILS)

Summer 2013

Designed architecture and created social media platform to allow undergraduate students to connect with their campus.

FOREX-ANALYZER

PERSONAL PROJECT (JAVA)

Summer 2012

Designed a system that made recommendation on when to buy or sell currencies based on machine learning and technical analysis.

EXTRA CURRICULAR ACTIVITIES

PARKDALE MENTORSHIP

MENTOR

February 2015 - Present

- Mentor students in grade 10 in Parkdale Collegiate Institute.
- Through individual and group mentoring, provide exposure to career options and valuable life skills, such as networking.

TAKE-ACTION ORGANIZATION

Co-PRESIDENT

September 2012 - August 2014

- Responsible for co-ordinating executives and ensuring the executives and the group are working towards fulfilling the goals of the organization.
- Co-ordinated volunteering events with Redwood shelter for women, whereby volunteers organized donations and cleanup common area.

VICE PRESIDENT OF OUTREACH

September 2011 - August 2012

- Organised and advertised events and recruited volunteers for events like CN Tower climb and sandwich runs.
- Helped organize a Christmas Party for underprivileged children; designed and built a Plinko game for the children and provided food and decorations.

VOLUNTEER

December 2009 - April 2011

- Alternative Reading Week: did science experiments for children 5-10 years old, to get them fascinated about science.
- Scott Mission: Volunteered and helped prepare and serve meals to those in need.

AWARDS

ROGERS SCHOLARSHIP

September 2014

NSERC USRA

April 2013

QUEEN ELIZABETH II- REACHING FOR THE TOP

September 2009