

**Ashutosh Rishi Ranjan**  
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## Education

### **University of Melbourne**

*Expected to graduate in June 2016*

MSc. Computer Science

- Relevant courses: Declarative Programming, Programming Language Implementation, Distributed Systems & Algorithms, Cluster & Cloud Computing, Web Search & Text Analysis, Parallel & Multicore Computing.

### **Symbiosis University, Pune, India**

*Graduated 2014*

B.Tech. Computer Science

## Coursework Projects

### **Research Project on Declarative Languages, University of Melbourne**

*On going*

- Code generation from a newly proposed logical IR using a new functional + logical source language for testing.
- Writing the compiler in Haskell and hooking into LLVM for final code generation.
- Developing an intermediate object file wrapper and a bitcode wrapper.

### **Twitter Analysis Service over an Open Stack IAAS, University of Melbourne**

*Semester 1, 2015*

- Wrote a Python client to harvest geo-located tweets around SF into a CouchDB instance. The client ran as a daemon from two different servers.
- Wrote a Python application to perform several different analyses on the stored data, making use of CouchDB Map-Reduce views and present it's result as a REST API.
- Setup a NGINX server on an instance to host the website presenting this data through graphs and heat maps.
- We built our own orchestration tool using Bash scripts and rsync, imitating Ansible.

## Experience

### **Web Developer, Melbourne Web Co.**

*Contract basis, 2015*

- Worked independently and within a team environment on multiple web development projects using the Wordpress platform.
- Developed custom Wordpress plugins in PHP for a few jobs.

### **Intern, Assistant to Project Manager, Bahwan Cybertek, Oman**

*June 2013*

- Modelled an implementation of an IBM Maximo Asset management solution for a client.
- Created a concept design for a responsive website for Bahwan Cybertek for the IT team.

### **IT Intern, HELLA India**

*January to May, 2013*

- Developed a complete in-house Inventory Management System on a PHP back-end.
- Configured and Deployed an Employee Training Portal using the Moodle framework.
- Recorded usage videos and documentation to help other teams in their adoption of the portal.

## Extra Curricular Activities

### Co-Head, Student Technical Committee

2012

*Symbiosis Institute of Technology, Pune, India*

- Developed the annual college festival website and registration back-end.
- Managed the team's finances and technical logistics, while collaborating with other teams.

## Technical Skills

**Programming language implementation:** Compiler Design using LLVM

### Web Development and Design:

- Programmed back-ends in Javascript, Python and PHP.
- Experience with designing and using REST APIs.
- JS Toolkit: ReactJS, Express, JQuery among others.
- Front-end development with responsive design and a focus on good UI/UX.

### Platforms:

- Experienced with Unix/Linux; Configuring NGINX and Apache web servers on Linux.
- Worked on projects built upon Open Stack.

### Languages:

Current Projects: Haskell, OCaml, Javascript (ES6+5)

Worked With: Python, Java, C, PHP, C++

## Github

<https://github.com/ashutoshrishi>

## Hobbies

Cycling, Muay Thai

## Referees

Available Upon Request.