

Ashutosh Rishi Ranjan

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Education

University of Melbourne

Expected to graduate 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

- Translation of a newly proposed logical IR targeting LLVM using a new functional + logical source language for testing.
- Developing an intermediate object file wrapper.
- Writing the compiler back-end in Haskell.

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

2015 Semester 2

- 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.

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.

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.

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.