Ashutosh Rishi Ranjan

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Education

University of Melbourne M.Sc. Computer Science

Graduated in July 2016

- Weighted Average: 79.5

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

Symbiosis University, Pune, India B.Tech. Computer Science

Graduated 2014

Coursework Projects

Masters Research Project on the Wybe Compiler University of Melbourne

2015 to 2016

- Worked on a compiler for a new multi-paradigm language, *Wybe*, with a new Logic Programming based Intermediate Representation (*LPVM*) and a LLVM target.
- Wrote the back-end of the Compiler in Haskell.
- Researched and implemented various techniques to create an incremental and work-saving compilation process.
- Compiler includes a modern GNU Make-like build system.
- Thesis link: https://github.com/ashutoshrishi/wybe-thesis

Compiler for a Toy Language in OCaml Programming Language Implementation, UniMelb

Semester 1, 2016

- Implemented a complete compiler for a toy language in OCaml as part of a semester long project.
- Developed a basic *diff* based testing framework in OCaml for continuous testing of the compiler outputs as extra work: https://github.com/ashutoshrishi/difftest
- Project link: https://bitbucket.org/pli2016/beanc

Twitter Analysis REST Service over an Open Stack IAAS, Cluster and Cloud Computing, UniMelb

Semester 1, 2015

- Wrote a Python client to harvest geo-located tweets around SF into a CouchDB instance. The client ran as a daemon parallely from two different servers.
- Wrote a Python application to perform several different natural language analyses on the stored data using CouchDB Map-Reduce views, and served their results through a REST API.
- Set up a NGINX web server on a Linux based instance to host a website presenting this data
 - through client-side graphs and heat maps rendered with Javascript.
- We built our own orchestration tool using Bash scripts and rsync, imitating Ansible.
- Project Link: https://bitbucket.org/cccteam6/cctwittersearch

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 for local Australian businesses.
- 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, January to May, 2013

HELLA India

- Developed a complete new in-house Inventory Management System on a PHP back-end for the team responsible of maintaining the local HELLA electronics stock.
- 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.

Code

Github: https://github.com/ashutoshrishi

Bitbucket: https://bitbucket.org/ashutoshrishi/profile/teams

Technical Skills

Languages:

Current Projects: Haskell, Elm, Javascript (ES6+5) Worked With: Python, OCaml, Java, C, PHP, C++

Programming language implementation: Compiler Design using LLVM **Web Development and Design:**

- Programmed back-ends in Javascript, Haskell, 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.

Other Personal Details

Current Visa: Australian Graduate Work Visa

Languages:English (fluent), HindiDate of Birth:26/09/1992 (Age: 23)Hobbies:Cycling, Muay Thai