VINEET KUMAR

+1.514-970-9179, vineet.kumar@mail.mcgill.ca 3498 Rue Hutchison, Apt#501, Montreal, QC, Canada - H2X 2G4

SUMMARY

- M.Sc, McGill University with research in Compilers and Program Analysis & Transformations supervised by Prof. Laurie Hendren.
- · 3 years of industry experience with Infosys Technologies in deployment performance management for largescale systems and **development**(in C).
- · Internship with Sun Microsystems as Student Tech Lead, APAC region/Campus Ambassador.
- · Experience of working (part-time) with a funded **e-commerce startup**, developing social network interfaces.
- · Extensive programming experience (C and Java).
- · Experience in all areas of static Compilers including program analysis and transformations, compiling dynamic languages and programming language dsign.

EDUCATION

McGill University

August 2013 (expected)

M.Sc. in Computer Science (CGPA: 3.56/4.00)

Montreal, QC, Canada

- · Awarded the summer DFW scholarship for top performing International Graduate students.
- Gave a grad seminar on X10 and compiling Matlab to X10.

SASTRA University

June 2008

B. Tech. in Computer Science & Engineering (CGPA: 8.93/10.00)

Thanjavur, India

- · For my B.Tech project, I developed DISCODE: A decompiler targeting C for OpeSolaris on x86.
- · Won the dean's list scholarship for being in the top 10% of the University.
- · Co-founded and led GLOSS(GNU Linux & Open Source at SASTRA) club of the University.
- · Executive member and member of editorial team of Student Association of School of Computer Science.

EXPERIENCE

McGill University

September 2011 - Present

Research and Teaching

Montreal, QC, Canada

- Research Assistant, SABLE Lab My research interests include program analysis & transformation techniques to compile dynamic programming languages to static object-oriented and HPC languages. My research is supervised by Professor Laurie Hendren. As a part of my thesis I am developing MIX10: a MATLAB to X10 (A new HPC language by IBM research) compiler. I get direct assistance from X10 team at IBM Thomas J. Watson Research Center.
- · Teaching Assistant COMP 621 Program Analysis and Transformations (Winter 2013).
- · Teaching Assistant COMP 520 Compiler Design (Fall 2012).

Infosys Technologies Ltd.

Senior Systems Engineer

September 2008 - August 2011

Pune, India

- · Managed the offshore deployment performance management team for AT&T online and mobility.
- · Consulted on 8 projects and they all exceeded performance targets under peak loads.
- · Contributed to the SEO recommendation system used by the Infosys global marketing team.

MySmartPrice

Developer (part-time)

October 2010 - July 2011

Pune, India

- MySmartPrice is an Indian e-commerce startup that provides a price comparison engine for online stores. I worked with the founders over weekends and brainstormed design and implementation strategies
- I Wrote the initial **social network interfaces** for facebook and twitter.

Sun Microsystems

January 2007 - May 2008

Intern - Student Tech Lead, APAC region/Campus Ambassador

Bangalore, India

- · I was promoted from Campus Ambassador to one of only 5 Tech Leads worldwide.
- · Conducted webinars and developed tutorials for Campus Ambassadors worldwide.
- · As a Campus Ambassador I was one of only 27 Campus Ambassadors across India.
- Taught a certificate course on OpenSolaris.
- \cdot Conducted several seminars on OpenSolaris and other Sun technologies in SASTRA and nearby Colleges.

PROJECTS

- · is Complex value analysis for MATLAB programs: Analysis to identify if a value is complex or real.
- Open source license recommendation engine.
- · WIG (a subset of
 bigwig> language) to PHP compiler (in team of two).
- · Tweetinawhile: A web-based tweet scheduler.
- · DotGyan: A server side search enhancement tool for web browsers.
- · Damruu: A RSS feed reader and chronologically based feed merger.

Graduate courses - Compiler Design, Program Analysis and Transformations, Advanced Techniques for Compiling Dynamic Languages, Distributed

Systems, Computer Networks,

Recommendation Systems for Software Engineering

Associated with some of the best

people, schools and companies in

Computer Science

Active participation in extra-curricular activities

Reserach, Teaching, Compilers, Program analysis, Program transformation and optimization techniques, Program language design, Code generation, C, Java, JastAdd, Flex, Bison, Beaver, Matlab, X10

Management, Software development, Software engineering, SEO, Java, HP LoadRunner

e-commerce, startup, social network APIs, PHP, Apache, MvSQL

Teaching, Evangelism, Open Source culture, OpenSolaris

Data flow analysis, Open Source $licenses,\ Compilers,\ Twitter\ API,$ OAuth, RSS, PHP, C, Javascript

PUBLICATIONS

Technical Report

· Vineet Kumar and Laurie Hendren. First steps to compiling MATLAB to X10. Technical Report sable-2013-1, School of Computer Science, McGill University, Mar. 2013. http://www.sable.mcgill.ca/mclab/mix10/techrep.pdf.