SUMMARY

- · Career interest in **teaching** and **research**.
- · M.Sc, McGill University with research in Compilers and Program Analysis & Transformations supervised by Prof. Laurie Hendren and assisted by the X10 team at IBM Thomas J. Watson Research Center.
- · Teaching assistantship for two graduate level courses Compiler design and Program analysis & transformations.
- · 3 years of industry experience in software development as Senior Systems Engineer with Infosys Technologies Ltd.
- · Teaching and technology evangelism as Student Tech Lead, APAC region/Campus Ambassador (intern) with Sun Microsystems.
- · Co-founder and Student chairman of GNU Linux and Open Source club of SASTRA University at undergraduate level.
- · 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 design.

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 OpenSolaris 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.

PUBLICATIONS

· Vineet Kumar and Laurie Hendren. First steps to compiling MATLAB to X10. In Proceedings of the 2013 ACM SIGPLAN X10 Workshop, X10 '13 co-located with PLDI 2013.

EXPERIENCE

McGill University
Research and Teaching

September 2011 - Present

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 the 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

 $Pune,\ India$

- · Led the offshore deployment performance management team for AT&T online and mobility.
- · Worked 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

- \cdot I was promoted from Campus Ambassador to one of ${\bf only~5}$ ${\bf Tech~Leads~worldwide}.$
- \cdot Conducted we binars 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.
- · Conducted several seminars on OpenSolaris and other Sun technologies in SASTRA and nearby Colleges.

SKILLS AND COMPETENCIES

Relevant Courses

· Compiler Design, Program Analysis & Transformations, Advanced Techniques for Compiling Dynamic Languages, Distributed Systems, Computer Networks, Recommendation Systems for Software Engineering.

Programming languages and Software tools

· Java, C, PHP, Perl(basic), Javascript(basic), MATLAB , X10 , HTML, XML, RSS, twitter API, facebook API, Apache, MySQL, JastAdd, Flex, Bison, Beaver, Eclipse, Vim, LATEX.

Areas of interest (with experience)

· Teaching, Research, Software development, Programming language design, Compilers and program analysis, Web startups, Social networking apps, e-commerce.

PROJECTS (COURSE AND OTHER)

- · isComplex value analysis for MATLAB programs: Analysis to identify if a value is complex or real. (url)
- · FreeMeLegal: An Open source license recommendation engine. (url)
- · WIG (a subset of

 bigwig> language) to PHP compiler (in team of two).
- · DotGyan: A server side browser independent search enhancement tool for web pages with textual content. (url)