SUMMARY

- · I am seeking a full-time software development position starting February 2014.
- · M.Sc Computer Science, McGill University | 3+ years of relevant industry experience in software development and programming (C and Java) | Specialization in compiler design, program analysis and program transformations.
- · Interests Compilers, Computer networks, Recommender systems, Social networks, E-commerce, High-performance computing.
- · Skill set
 - · Programming languages Expert: C, Java, X10, MATLAB | Proficient: PHP | Prior experience: Python, Javascript.
 - · Software development GNU/Linux, Windows 7 | MySQL | Eclipse | GCC, OpenJDK 7, JUnit, GDB | Git, SVN | Vim, LATeX.
 - · Web development Apache HTTP server, HTML, JSON, XML, RSS, APIs: Facebook, Twitter, Paypal, SEO, Amazon EC2.
 - · Compiler design tools Flex, Bison, Beaver, JastAdd.

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

EDUCATION

McGill University

December 2013 (expected)

Montreal, QC, Canada

Selected for presentation at 12th Compiler-Driven Performance Workshop at CASCON 2013.

SASTRA University

June 2008

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

Thanjavur, India

- · 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

January 2012 - Present

Research and Teaching

 $Montreal,\ QC,\ Canada$

- Research Assistant, Sable Lab My research is about static compilation and program analysis for dynamic languages.
- · Designed and developed a MATLAB compiler for high-performance computing via X10 language under supervision from Prof. Laurie Hendren and with direct inputs from X10 design team at IBM T.J. Watson Research Center.
- · Achieved 20-40% performance improvements over commercial MATLAB implementation (for sequential code).
- · Discovered a critical shortcoming in the X10 Java backend.
- · Teaching Assistant Program Analysis and Transformations, Compiler Design, Introduction to Computer Systems.

Infosys Technologies Ltd.

September 2008 - August 2011

 $Pune,\ India$

Senior Systems Engineer

- · I led a team of 4 for deployment performance management for AT&T's online and mobility frontend and backend applications.
 - · My team's job was design and development of performance tests, analysis of results and troubleshooting performance issues.
 - · Worked on 8 projects and they all exceeded performance SLA under peak loads.
- · Part of the development team for 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 helped the co-founders with designing the core crawler algorithm.
 - · 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 being one of only 27 Campus Ambassador across India to one of only 5 Tech Leads worldwide.
 - · My job was to conducted webinars and develop tutorials for Campus Ambassadors worldwide.
 - · Taught a certificate course on OpenSolaris.

PROJECTS (COURSE AND PERSONAL)

- · Discode: A decompiler for C on OpenSolaris for intel x86 (B.Tech project). (url)
- · Analysis to identify if a value is complex or real for MATLAB programs (Course project for Program analysis). (url)
- · FreeMeLegal: An Open source license recommendation engine (Course project for Recommender systems). (url)
- · WIG (a subset of
 bigwig> language) to PHP compiler (Course project for Compiler design in a team of two).
- · Performance Analysis and comparison of ZeroMQ and TCP (Course project for Computer networks in a team of three).
- · Tweetinawhile: A web-based tweet scheduler.
- · DotGyan: A server side browser independent search enhancement tool for web pages with textual content. (url)