SUMMARY

- · Seeking a full-time software development position starting May 2014 (or later).
- · 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.
- · Programming languages Expert: C, Java, X10, MATLAB | Proficient: PHP | Prior experience: Python, Javascript.

EDUCATION

McGill University

December 2013 (expected)

Montreal, QC, Canada

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

· Won the summer differential fee waiver for the top-performing international students.

SASTRA University

June 2008

Thanjavur, India

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

 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 AND TALKS

- · Vineet Kumar and Laurie Hendren. MIX10 : Compiling MATLAB for high performance computing via X10 . 12th Compiler-Driven Performance Workshop at CASCON 2013.(url bit.ly/1hXms8N)
- · 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.(url bit.ly/18owBUI)

EXPERIENCE

McGill University

January 2012 - Present

Montreal, QC, Canada

Research and Teaching

- · 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).
- \cdot Discovered a critical short coming in the X10 Java backend.
- · Teaching Assistant Program Analysis and Transformations, Compiler Design, Introduction to Computer Systems.

Infosys Technologies Ltd.

September 2008 - August 2011

Senior Systems Engineer

Pune, India

- Led a team of 4 for deployment performance management for AT&T's online and mobility frontend and backend applications.
 - $\cdot \ \, \text{My team's job was design and development of performance tests, analysis of results and troubleshooting performance issues.}$
- · 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.

 ${\bf MySmartPrice}$

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.
 - \cdot Helped the co-founders with designing the core crawler algorithm.
 - · Wrote the initial **social network apps** for facebook and twitter.

Sun Microsystems

January 2007 - May 2008

Intern - Student Tech Lead, APAC region/Campus Ambassador

Bangalore, India

- $\cdot \ \ \text{Promoted from being one of } \textbf{only 27 Campus Ambassador across India} \ \ \textbf{to one of } \textbf{only 5 Tech Leads worldwide}.$
 - \cdot Conducted webinars and developed tutorials for Campus Ambassadors worldwide.
 - · Taught a certificate course on OpenSolaris.

OTHER PROJECTS

- $\cdot \ \, \text{Discode: A decompiler for C on OpenSolaris for intel x86 (B.Tech project, individual).} \\ (\text{url } \textit{bit.ly/15rZr2n})$
- $\cdot \ \, \text{Analysis to identify complex numerical values for Matlab programs (COMP~621~Program~analysis, individual). (url~-~bit.ly/15SYKmC)}$
- $\cdot \ \ \text{FreeMeLegal: An Open source license recommendation engine (COMP\ 762\ Recommender\ systems,\ individual). (url\ -\ \textit{bit.ly/19yjPkU})}$
- \cdot Performance Analysis and comparison of ZeroMQ and TCP (COMP 535 Computer networks, team of three).
- · A fault-tolerant distributed travel reservation system (COMP 512 Distributed systems, team of two).
- · DotGyan: A server side browser independent search enhancement tool for web pages with textual content (personal).(url bit.ly/14FUtBS)