#### **SUMMARY**

- · Seeking a full-time software development position starting May 2014 (or later).
- · M.Sc Computer Science, McGill University | 3+ years of industry experience in all aspects of software development.
- · Extensive programming experience in **Java** and **C**.
- · Programming languages Proficient: Java, C, X10, MATLAB | Prior experience: PHP, Python.

### **EDUCATION**

McGill University

April 2014

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

Montreal, QC, Canada

· Won the summer differential fee waiver for being among the top-performing international students in the University.

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 among the top 10% students in 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

- · Publication: 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.(bit.ly/18owBUI)
- · Talk: Vineet Kumar and Laurie Hendren. MiX10: Compiling Matlab for high performance computing via X10. 12<sup>th</sup> Compiler-Driven Performance Workshop at CASCON 2013.(bit.ly/1hXms8N)

#### WORK EXPERIENCE

McGill University
Research and Teaching

January 2012 - April 2014

Montreal, QC, Canada

- · Research Assistant, Sable Lab My research included program analysis and static compilation of dynamic languages.
  - · Designed and developed (in Java) MIX10: a MATLAB to X10 compiler for high-performance, under Prof. Laurie Hendren's supervision and with direct inputs from the X10 design team at the IBM T.J. Watson research center.(bit.ly/1sZ8aqJ)
  - · Achieved 7 times (mean) faster performance compared to the standard MATLAB implementation.
  - $\cdot$  Discovered  ${\bf 2}$  bugs and a severe performance bottleneck in the X10 compiler.
- · Teaching Assistant Program Analysis and Transformations, Compiler Design, and 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.
  - · My team's job was to design and develop (in C) performance test scripts, analyze results, and troubleshoot performance issues.
  - · Worked on 8 projects and they all exceeded performance SLA under peak loads.
- · Part of the development team for the SEO recommendation system used by the Infosys global marketing team.

**MySmartPrice** 

October 2010 - July 2011

Pune, India

- $\cdot \ \text{MySmartPrice is an Indian } \textbf{e-commerce startup} \ \text{that provides a price comparison engine for online stores}.$ 
  - · Contributed in the design and development of their core crawler algorithm.

## Sun Microsystems

Developer (part-time)

January 2007 - May 2008

Intern - Student Tech Lead, APAC region/Campus Ambassador

Bangalore, India

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

# OTHER PROJECTS (top 3)

- $\cdot$  FreeMeLegal: An Open source license recommendation engine (COMP 762 Recommender systems, individual). (bit.ly/1m030GV)
  - · Recommendations based on similarities with the top projects on Sourceforge.net.
  - · Implemented a crawler (in PHP) to collect data for top projects on Sourceforge.net.
- · Performance Analysis and comparison of ZeroMQ and TCP (COMP 535 Computer networks, team of three).(bit.ly/1m0dcPE)
  - · Compared throughput and latency of a ZeroMQ based P2P chat system to that of a TCP based P2P chat system.
  - · Both the chat systems were implemented by us in Java.
- · Analysis to identify complex numerical values for Matlab programs (COMP 621 Program analysis, individual).(bit.ly/15SYKmC)
  - · Developed a language to express information propagation through library function calls.(bit.ly/1ezq93q)
  - · Accurate results for all the 20 benchmarks used by the McLab project.