
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.

EDUCATION

- McGill University** December 2013 (expected)
M.Sc. in Computer Science (CGPA: 3.56/4.00) 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
Senior Systems Engineer Pune, India
- 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** October 2010 - July 2011
Developer (part-time) 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 conduct 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](#))