

Computer enthusiast with over three years of experience in building large scale software systems.

EDUCATION

- **University of Waterloo, Canada** (Fall 2013 - current)
Master of Mathematics, Computer Science
Algorithms and Complexity, CGPA : 93.2%
- **Indian Institute of Technology, Varanasi, India** (2006 - 2010)
Bachelors in Computer Science
CGPA : 8.69/10

TECH ARSENAL

- **Programming languages** C++(Proficient), C (Good), Perl (Good), shell-scripts (Good), php
- **Operating systems/Tools** Linux (Ubuntu), GDB (Proficient), version control (git, svn, cvs), awk, sed, etc

WORK EXPERIENCE

- **Research Assistant, University of Waterloo** (Sep 2013 - current)
Solving computationally hard problems on special graph classes.
- **Google Summer of Code, Open Graph Drawing Framework** (Summers 2014)
Implemented algorithms for computing treewidth of undirected graphs.
- **Senior Software Developer, Mentor Graphics, India** (2010 - Aug 2013)
Algorithmic solutions for Mentor's next generation emulation platform.
- **Google Summer of Code, ScummVM** (Summers 2010)
Wrote a game engine for testing ScummVM subsystems.

OTHER PROJECTS

- **Medley** a movie search engine that combines data from Netflix, IMDB and Rotten Tomatoes.
- For an advanced operating system course, we performed a holistic analysis of shared library performance on NUMA architectures.
- Worked on implementation of TCP/IP protocol stack using design patterns for ES operating system opensource project.

MISCELLANEOUS

- **Publication** SiPTA: Signal Processing for Trace-based Anomaly Detection, at *EMSOFT '14*
- **Scholarships** Graduate Entrance Scholarship (University of Waterloo), CBSE Merit Scholarship (India)
- **Teaching assistant** for CS341 : Algorithms and CS350 : Operating Systems.
- **Languages** English (fluent), Hindi(fluent)