

# JAYANTH KOTTAPALLI

## 4A COMPUTER SCIENCE

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### Skills Summary

- Working and applied knowledge of imperative programming, object-oriented programming and algorithm, data-structure designing with **5+** years of experience
- Proficient C/C++, PHP programmer with in-depth knowledge of their inner mechanisms
- Strong understanding of OS Kernel foundations – multi-programming, concurrency, inter-process communication along with thread synchronization, file-system and memory management
- Familiarity with software and web development tools and processes acquired through working as a **Software Tools Developer**
- Excellent software, troubleshooting, and customer service skills acquired through working as a **Software Support Specialist** and volunteering as a Technical Support assistant

### Technical Adeptness

Programming Languages:	C, C++, Java, Python, DrRacket (DrScheme),
Scripting:	Shell, Bash, PHP, JavaScript - jQuery, AJAX, HTML, Makefile,
Databases:	MSSQL, Oracle
Operating Systems:	Windows, Unix/Linux, Mac
Source code management:	Concurrent Versions System, Perforce, GIT/Gerrit
Miscellaneous:	Eclipse, gedit, vim-editor, Microsoft Visual Studio, Adobe Photoshop, Adobe Illustrator, Microsoft Office, MAPLE

### Education

#### Candidate for Bachelor of Computer Science/Business Option (Honours)

University of Waterloo, Waterloo, ON, Sept. 2009 – Present

#### Certified CompTIA A+ general technician

2007

#### Relevant Assignments:

WLPP language (subset of C++) compiler – Foundations of sequential programs (CS 241) - 2011

- Implemented a LR-1 and a LL parser along with a lexical analyzer
- Designed an efficient WLPP to MIPS compiler in C++
- Attained 20th rank in code efficiency out of over 250 students

#### Relevant Courses:

Object Oriented Software Development, Operating Systems (components of an OS Kernel), Algorithms, Data Structures and Data Management, Concurrency and Parallel Programming, Software Testing & Quality Assurance, Foundations of Sequential Programs (Compiler for MIPS in C++), Computer Organization & Design

## Work & Volunteer Experience

### Software Tools Developer – Student

Performance review rating- Excellent

Research in Motion Limited®

415 Philip St, Waterloo

Sept. 2012 – Dec. 2012

- Worked on various projects using PHP, SOAP, MKS Integrity, MSSQL, Perforce as developing tools
- Automated production tools in R&D well ahead of scheduled deadlines
- Designed front-end user interfaces for easy usage and accessibility using CSS, HTML and jQuery - Javascript
- Produced efficient and well documented code for self-service and automation scripts
- Maintained the hosting servers and provided customer support for the existing automated production tools

### Software Support Specialist – Co-op

Performance review rating- Excellent

Research in Motion Limited®

415 Philip St, Waterloo

Jan 2012 – April 2012

- Provided Level 1 administration & technical support to various production tools in R&D
- Provided technical support to source-code management tools/software with R&D
- Helped troubleshoot software issues that users have encountered efficiently
- Provided step-by-step instructions to resolve various software and technical issues
- Worked on web development using PHP, HTML, Javascript and wrote various **tool scripts** for self-service

### Technical Support Assistant, Volunteer

Netplus College of Information Technology

Ellesmere and Kennedy, Toronto

July 2007 – Sept. 2007

- Provided first-level technical support on basic operational and maintenance of PC's
- Set up networking of Windows, debugged network connectivity
- Installed Operating Systems, upgraded, managed files, disks
- Used documented procedures for peripherals and tools
- Made phone calls to customers to troubleshoot problems over phone

### Voluntary work for Winston Churchill CI Prefects/Student Activity Council

- Helped organize school dances, parent-teacher meetings, shows & several fundraising events Sept. 2006 - Sept. 2009

## Awards, Achievements & Interests

- Queen Elizabeth II Aiming for the Top scholarship, University of Waterloo September 2009
- Ontario Scholar's Award, November 2009
- Grade 12 Computer Engineering Award
- Winston Churchill C.I. Medallion grade 11 as well as received an Honour Roll in grade 9, 10, and 12
- Runner-up in 2009 TDSB Cricket regional championship, Toronto City Championships Winston Churchill C.I., Scarborough, ON, June 2009
- Eager to learn new programming languages and work on individual projects and Smartphone applications
- Cricket