Stephen Kraemer

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SUMMARY OF QUALIFICATIONS

- Proficient in programming in a multi-threaded environment
- Familiar with protocols throughout the network stack
- Attentive to detail in both writing software and in integrating with existing code
- Experience working in performance sensitive code

Programming Languages and Tools

- Operating Systems: Linux (day-to-day Ubuntu and Arch Linux user)
- Version Control: git, svn, perforce
- Embedded Systems: Arduino, Raspberry Pi
- Other Tools: gdb, valgrind, make, LaTeX, emacs, wireshark

WORK EXPERIENCE

Oracle, Endeca Server Team, *Boston, MA* Apr-Aug 2013
Software Developer

- Worked on performance and scaling team of an analytical database.
- Increased query performance by up to 10% by finding and fixing a bug in cache eviction algorithm.

Use of Time: New Feature Development (50%), Bug Fixes (5%), Verification Testing (15%), Performance Testing (20%), Other Testing (10%)
Technical Environment: C++11, python, Linux, multi-threaded programming, make, gdb, valgrind, svn, git

Autodesk, Alias Team, *Toronto, ON* Aug-Dec 2012
Software Developer

- Developed software for a 3D modelling program.
- Completely redesigned the printing work-flow, integrating Qt into a product that did not previously use it.

Use of Time: New Feature Development (50%), Bug Fixes (25%), Verification Testing (25%)
Technical Environment: C++, Objective-C, Windows, OS X, gdb, perforce, Qt, multi-threaded programming

Avvasi Inc, Packet Processing Team, *Waterloo, ON* Jan-Apr 2012
Software Developer

- Worked on product to analyze and improve video streaming over a large-scale network.
- Ported RTMP and RTSP parsers from an older product to a newer one.

Use of Time: New Feature Development (65%), Bug Fixes (10%), Verification Testing (5%), Unit Testing (20%)
Technical Environment: C++11, Linux, multi-threaded programming, network programming, gcc, make, gdb, svn, valgrind, wireshark

EDUCATION

Candidate for Bachelor of Applied Science Sept 2009 - Apr 2014
Mechatronics Engineering University of Waterloo, ON

Fourth Year Design Project - www.casesensitive.ca Sept 2013 - Apr 2014

- Designed a "smart" suitcase that tracks its position, detects mishandling, and weighs itself; reporting this information to a smartphone.
- Software lead in a team of four.

Technical Environment: C++, PHP, Java, Arduino, Android, Raspberry Pi, network programming, wireshark

INTERESTS

- Heavy metal music
- Video Games: Minecraft, Pokemon, Zelda
- University of Waterloo Engineering Society member