

# Stephen Kraemer

[github.com/straemer](https://github.com/straemer)  
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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

|        |             |  |
|--------|-------------|--|
| C++11  | <div></div> | • Operating Systems: Linux (day-to-day Ubuntu and Arch Linux user) |
| python | <div></div> | • Version Control: git, svn, perforce                              |
| C      | <div></div> | • Embedded Systems: Arduino, Raspberry Pi                          |
| Java   | <div></div> | • Other Tools: gdb, valgrind, make, LaTeX, emacs                   |

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## WORK EXPERIENCE

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

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

**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.

**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 using C++.

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## EDUCATION

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

**Fourth Year Design Project** - [www.casesensitive.ca](http://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, coded in C++, Java, PHP, using an Arduino and creating an app on Android.

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## INTERESTS

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