

ERIC TU

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<http://erictu.com>

TECHNICAL SUMMARY

Languages C, C++, Java, Python, Ruby, Bash, Common LISP/Scheme, 8085/MIPS Assembly, HTML/CSS, Javascript, PHP, Ruby, Tcl, L^AT_EX

Tools Emacs, Vim, Git, SVN, Eclipse, Visual Studio 2008–2015

Hardware Arduino, Raspberry Pi, Lego Mindstorm, VEX Robotics

PROFESSIONAL EXPERIENCE

Infrastructure Software
Engineer
Jan 2016–April 2016
[Peraso Technologies](#)
Toronto, ON

- Contributed to the agile development of software for 60GHz embedded devices and acquired a deep understanding of concepts in concurrency and network programming
- Developed a language independent and cross platform (Windows/Linux) testing infrastructure in C/C++ using SOAP for communication
 - Optimized nightly regression running time in half
 - Improved robustness of infrastructure by implementing watchdog and recovery mechanisms
 - Collaborated in the design of a new continuous integration system to replace existing Bamboo software
- Developed and maintained multiple REST APIs and services for Linux and Windows
 - Allowed for communication with serial ports to send information to USB devices
 - Implemented the ability for users to change driver and OS settings remotely

QA Software Developer
May 2015–Sept 2015
[IBM Canada Corporation](#)
Markham, ON

- Created and designed language verification test cases for DB2 products
- Wrote scripts in Bash, Batch, and Perl for regression testing
- Gained proficiency in Linux, Unix, and Windows
- Developed a passion for automation of processes

PROJECTS

[GITHUB.COM/TUERIC](https://github.com/tueric)

[TopKap](#)
2016
Ruby on Rails App

- Created a social web platform which allows users to form communities to share pictures and make captions for them
- Built using the Ruby on Rails framework

[WatSong](#)
2015
IBM TechChallenge

- Built a song recommendation app based on song mood using the IBM BlueMix platform, IBM Watson services, and self designed algorithm
- Used a PHP backend and DB2 database to manage song requests
- Wrote a web scraper in Python to extract lyrics from websites

[Smart Car](#)
2014
Arduino Development

- Designed pathfinding algorithms to traverse a robot through a maze
- Built from scratch using Arduino and light sensors
- Planned using drafting techniques on Google Sketchup

EDUCATION AND ACADEMIC EXPERIENCE

Computer Science and
Pure Mathematics, BCS
[University of Waterloo](#)
2014–(Current)
Waterloo, ON

Coursework *Elementary Algorithm Design and Data Abstraction, Designing Functional Programs, Object-Oriented Programming, Sequential Programming, Computer Organization, Data Structures, and Logic and Computation*