

Tristan Amini

(416) 801-5288 | tsamini@uwaterloo.ca

EDUCATION

UNIVERSITY OF WATERLOO
SYSTEMS DESIGN ENGINEERING
Class of 2018

LINKS

Github: github.com/Tamini
LinkedIn: linkedin.com/in/tamini

PROGRAMMING

Language | Familiarity

| | |
|------------|-------|
| Java | +++++ |
| Bash | +++++ |
| C++ | ++++ |
| Go | +++ |
| Assembly | ++ |
| LaTeX | +++ |
| OCaml | +++ |
| Scala | +++ |
| SQL | +++ |
| R | +++ |
| Python | +++ |
| CSS | +++ |
| HTML | +++ |
| JavaScript | ++ |
| Chef | ++ |
| Ruby | ++ |

Tool | Familiarity

| | |
|-------------|-------|
| Git | +++++ |
| gdb | ++++ |
| Maven | ++++ |
| Jenkins CI | ++++ |
| Eclipse IDE | +++ |
| Android | +++ |
| AngularJS | +++ |
| SBT | +++ |
| SolidWorks | ++ |

PAST EMPLOYERS

INTERSET

"Tristan was keen to gain exposure to every aspect of software development and he demonstrated an exceptional ability to very quickly become productive with new technologies."

- Michael Iles | Dev Lead

WORK EXPERIENCE

IBM | OPEN SOURCE COMPILER DEVELOPER

May 2015 - August 2015 | Markham, ON

- Developed the OCaml compiler and runtime for the Z Architecture.
- Wrote relocation types for the Go linker to work with Z.
- Worked on the Go Assembler for Z.
- All of the above required x64, ppc and Z Assembly.
- Ported the Ruby SourceRPM to Z.

INTERSET | SOFTWARE ENGINEER

September 2014 - December 2014 | Ottawa, ON

- Wrote bash script to allow for automatic OVA creation for customer deployments of software bundle.
- Created Scala application to read and anonymize millions of data entries.
- Fixed a Windows registry related bug in the company's agent using C++.
- Maintained and set up a Hadoop/HBase/Spark installation.
- Wrote many Maven and SBT files to package builds and deploy them.
- Setup data stack on AWS machine.
- Built web pages for use internally and by customers.

POLAR | DEVOPS

January 2014 - April 2014 | Toronto, ON

- Set up easily recreatable and destroyable virtual machines using Chef, Knife and vSphere.
- Created MySQL dump scripts in Python and SQL that run daily using cron.
- Maintained and added to a suite of Selenium tests for Polar's MediaVoice.
- Set up unit testing and linting for the various Chef cookbooks.
- Wrote an IRC bot in Python to help coordinate users and add useful features to the IRC chat.

OPEN SOURCE WORK

JENKINS CI | CONTRIBUTING COMMUNITY MEMBER

March 2014 - Present | www.jenkins-ci.org

- Fixed a bug in the Cobertura plugin which required use of Java and Maven.
- Updated the Jira plugin to use a better method for building strings.
- Added unit tests for new features to prevent regression.

PERSONAL PROJECTS

ANTICHESS | CHESS GAME

2012 - 2013 | github.com/Tamini/AntiChess

Created a chess game with a custom made AI. AI implemented alpha-beta pruning and depth-first search to find the best moves.

UW COURSE APP | LIST, RATE AND COMMENT ON UW COURSES

November 2013 | github.com/Tamini/UWCourseGooseRepo

Wrote the Java and SQL backend for an android app that allowed for viewing and rating University of Waterloo courses.