

# Tristan Amini

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## EDUCATION

**University of Waterloo**  
SYSTEMS DESIGN ENGINEERING  
Class of 2018

## LINKS

Github: [github.com/Tamini](https://github.com/Tamini)  
LinkedIn: [linkedin.com/in/tamini](https://www.linkedin.com/in/tamini)

## PROGRAMMING

### Language | Familiarity

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

### Tool | Familiarity

Git	+++++
Jira	++++
gdb	++++
Maven	++++
Jenkins CI	++++
Eclipse IDE	+++
Android	+++
AngularJS	+++
SBT	++

## PAST EMPLOYERS

### Interaset

"...he demonstrated an exceptional ability to very quickly become productive with new technologies."

- Michael Iles | Dev Lead

### IBM

"...his innovative solution to managing exceptions and frame descriptors was the key to our finishing that project..."

- Bill O'Farrell | Developer

## WORK EXPERIENCE

### IBM | OPEN SOURCE COMPILER DEVELOPER

May 2015 - August 2015 | Markham, ON

- Part of the two man team that ported the OCaml compiler to the Z Architecture. Required reading and writing x64, ppc and Z Assembly.
- Wrote a relocation type for the Go linker to work with Z.
- Worked on the Go Assembler for Z.
- 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/Phoenix/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](http://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](https://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](https://github.com/Tamini/UWCourseGooseRepo)

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