

### **EDUCATION**

University of Waterloo Systems Design Engineering Class of 2018

### LINKS

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

# **PROGRAMMING**

### Language | Proficiency

C++ +++
Go +++
OCaml +++
Scala +++
SQL +++
Python +++
MATLAB +++
Assembly ++
Chef ++
Ruby ++

### Tool | Proficiency

Git ++++

Jira ++++

gdb ++++

Jenkins Cl ++++

WinDebug +++

Perforce +++

Maven +++

Android +++

### PAST EMPLOYERS

#### Interset

"...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

This resume is written in LATEX! Find the source at: github.com/Tamini/Resume

### **WORK EXPERIENCE**

#### **AMD** | DRIVER DEVELOPER

January 2016 - April 2016 | Markham, ON

- Fixed bugs in the AMD Kernel Mode Driver for Windows 7, 8.1 and 10.
- Led the team that created a C++ program to simulate attacks on the AMD display driver. Fixed all identified security vulnerabilities leading to a more secure and reliable driver for AMD's users.

### 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.

#### **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.
- Maintained and set up a Hadoop/HBase/Phoenix/Spark install on AWS.
- 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.
- Created MySQL dump scripts in Python and SQL that run daily using cron.
- Wrote an IRC bot in Python to help coordinate users and add useful features to the IRC chat.

# PERSONAL PROJECTS

### SPARK | THIRD-PERSON HACK AND SLASH GAME

March 2016 - Present | Still in development!

Creating a third-person PC game in Unreal Engine 4 using Blueprints and C++. Currently have enemy NPCs, basic animations and basic combat. Will require working with game AI, animating, modelling, texturing and programming.

# MARKOV CHAIN | GENERATE TEXT BASED ON INPUT

July 2015 | github.com/Tamini/markov-test

Simple Java program that implemented a Markov Chain. Input text could be read from a text file and stored in a HashMap. Text would be generated based on probability of a specific word coming after another word. Given enough sample text as input, it would generate new text based on the learning acquired.

#### **ANTICHESS** | CHESS GAME

### 2012 - 2013 | github.com/Tamini/AntiChess

Created a chess game in Java with a custom AI in Java. AI implemented alpha-beta pruning and depth-first search to find the best moves. Each piece was assigned a point value and the AI determined the best move by looking at possible future board states and determining the best outcome.