Everest Munro-Zeisberger

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EMPLOYMENT

Coinbase, *Security Intern*, San Francisco, California, USA — Sep 2017 - Dec 2017

Google, *Chrome Security Intern*, Mountain View, California, USA — Jan 2017 - Apr 2017
- Built and released the first version of Clusterfuzz Tools (https://github.com/google/clusterfuzz-tools)
- Reduced time taken to reproduce Clusterfuzz security bugs by automating a long, convoluted process into a single command
- Designed and implemented a Continuous Integration server using Ansible, Runit and Google Compute Engine to ensure correctness and reliability by testing against new bugs from Clusterfuzz's API
- Provided a robust logging and alerting solution for the CI server and Client application using Google Cloud's Stackdriver Logging system
- Enabled local reproduction of a previously unreproducible security bug class, by adding mouse & keyboard gesture reproduction functionality, through the use of Virtual Frame Buffers and xdotool

Shopify, *Developer Intern*, Ottawa, Canada — May 2016 - Aug 2016
- Migrated the Shopify codebase from Rails 4 to Rails 5 as part of the Developer Acceleration team
- Created a tool to automatically retrieve failed tests from remote CI servers , saving time for developers
- Fixed the developer API for refunds and cancellations, leading to savings for customers, and an increase in customer satisfaction
- Maintained and improved the core Shopify application, including customer-facing order, transaction and payment systems

TATA Communications, *Operations and Security Intern*, Singapore — Jun 2015 - Sep 2015
- Collected usage logs from OpenStack Servers using Logstash and Logstash Forwarder
- Simulated OpenStack Servers with Vagrant in order to analyze error messages
- Wrote Python scripts using Pyinotify to analyze OpenStack Servers for errors, and warn users of these errors

INSEAD Business School, *Data Science Intern & Research Assistant*, Singapore — Mar 2014 - Sep 2015
- Created a web application in Java, using Tomcat Server, OAuth with the Scribe Library, and the LinkedIn API to generate a network graph of a user's connections
- Designed frontend using HTML, CSS and Javascript, d3.js, Bootstrap and JSP that allows users to interact with, visualize and gather statistics about their LinkedIn Network
- Programmed data pipeline in Java that preprocessed data for a d3.js-based visualization used to rate global Private Equity Funds

EDUCATION

University of Waterloo, Waterloo, ON, Canada 2015-Present
Third Year Candidate for Bachelor of Computer Science

United World College of South East Asia (UWCSEA), Singapore 2006-2015
International Baccalaureate Diploma
Graduated with 40 points in the IB Diploma

PROJECTS

UWaterloo Reddit Bot (Current)
- Built a processing method in python to gather and classify subreddit comments gathered via the Reddit API
- Implementing Scikit Learn, and machine learning algorithms including the KNN algorithm to classify Reddit Comments
- Developing a system to generate new comments by combining classification algorithms and Markov chains, using Markovify

Koan (Hack the North 2016)
- Worked with a 4 person team on a fast early warning system to identify symptoms of panic attacks using the Muse headband
- Built a microservice using Node.js that initiated callbacks when extreme data was added to the Firebase Live DB
- Developed a Ruby on Rails backend that used Twilio to alert emergency contacts about panic attacks, based on data collected from the Muse
- Created a frontend using Highcharts and Firebase's live API to provide realtime updates of the patient's mental condition

Robotics Club (United World College of South East Asia)
- Founded the Robotics Club, and managed a team of 15 students
- Taught newcomers the basics of programming, electronics and mechanics
- Programmed and constructed a small autonomous car
- Calibrated optical rangefinders to allow preemptive collision avoidance