

# EVEREST MUNRO-ZEISBERGER

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## SUMMARY OF QUALIFICATIONS

- Future Computer Scientist, skilled in programming, data manipulation, analysis and design
- Developer with the ability to efficiently improve, maintain and fix existing software  
In other words, I'll figure your stuff out, without wasting your time
- Fast, independent learner with the ability to quickly become productive in new environments
- Detail-oriented and able to follow instructions and design specifications
- Effective communicator in English (native) and Mandarin (near-fluent), developed through teaching Taekwondo, Math, Science and Languages to younger students

## CONTACT

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## TECH SKILLS

**LANGUAGES:** Java, Ruby, Python, Racket, Javascript, C, Arduino, Processing, Shell Scripting, HTML/CSS, UML, XML, JSP, SQL

**FRAMEWORKS:** d3.js, Rails, Bootstrap, OAuth, Google webapp2, Jekyll, GetSimple CMS, Pyinotify, Scribe, Scrappy

**TOOLS:** Git, Command Line, Vagrant, Tomcat Server, OpenStack Server, Logstash, REST, Excel, IntelliJ, Eclipse

## EDUCATION

University of Waterloo, Waterloo, ON, Canada 2015-Present

Candidate for Bachelor of Computer Science

Faux Racket - Implemented a compiler, in Racket, for a subset of the Racket programming language, consisting of a parser and an interpreter

Relevant Projects and Learning:

Data Structures - Gained experience with data structures including Braun Trees, Binary Search Trees, Treaps, Deterministic Balanced Binary Search Trees, Priority Queues and Maps

United World College of South East Asia (UWCSEA), Singapore 2006-2015

International Baccalaureate Diploma

Graduated with 40 points in the IB Diploma  
Relevant Project: Extended Essay - A physics paper detailing the feasibility, cost, logistics and science of a manned return journey to Mars using current technology

## EXPERIENCE

Shopify (<http://www.shopify.ca/>)

Developer Intern

Ottawa, Canada

May 2016 to Current

- 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 (<http://tatacommunications.com/>)

Operations and Security Intern

Singapore

Jun 2015 to 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 (<http://www.insead.edu/>)

Data Science Intern & Research Assistant

Singapore

Mar 2014 to Sep 2015

- Created web application that allows users to analyze their LinkedIn network
- Wrote backend in Java, using Tomcat Server, OAuth with the Scribe Library, and REST calls to the LinkedIn API to generate a network graph of a user's connections
- Designed frontend using HTML, CSS and Javascript, d3.js, Bootstrap and Java Server Pages that allows users to interact with, visualize and gather statistics about their LinkedIn Network
- Built Data Visualization to compare and rate global Private Equity Funds
- Programmed data pipeline in Java that allowed raw CSV files to be converted into an easily readable JSON format for the visualization
- Designed and built data visualization using HTML, CSS and Javascript, with the d3.js framework

The Stakeholder Company (<http://thestakeholdercompany.com/>)

Intern

Singapore

Oct 2013 to Nov 2013

- Assisted in making an application for the 2014 World Economic Forum in Davos
- Outlined the user interface for the web application
- Implemented web scraper using Python and Scrappy that gathered data about World Economic Forum participants
- Programmed Python scripts to clean up and parse the data for use in the application

Hackathon Mentor (Volunteer)

Mentor- Hackathon@SG and Ministry of Defence Data Analytics Challenge

Singapore

Jul 2015 to Aug 2015

- Mentored teams for 2 hackathons in Singapore
- Advised team members on pitching and presentation techniques
- Made suggestions on how to improve applications prior to presentations

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## AWARDS

University of Waterloo · President's Entrance Scholarship Awarded to students with high admission averages (>90%)	Jun 2015
University of Waterloo · Euclid Math Contest Medal Awarded to the student with the best Euclid score in each school	Jun 2015
United World College of South East Asia · Top Computer Science Student Awarded to the top Computer Science student in the grade	Jul 2014

## PERSONAL PROJECTS

- SleepHacks (Hack the North)
- Built SleepHacks, a web service that allows travelling hackathon participants to quickly arrange accommodation with local hackers
  - Programmed the backend that allowed residence postings to be made and linked users up
  - Learned a new Python framework, and delivered a functional, efficient backend within 36 hours
  - Tools used: Google's App Engine and webapp2 framework, Python, HTML/CSS/Javascript
- Robotics Club (United World College of South East Asia)
- Founded the Robotics Club
  - Taught newcomers the basics of programming, electronics and mechanics
  - Programmed and constructed a small autonomous car
  - Calibrated optical rangefinders to allow preemptive collision avoidance
  - Tools used: Arduino

## ACTIVITIES AND INTERESTS

- TEDx Technology Team: Head of Technology
- Managed a team of 8 people over 6 months
  - Designed and built the website
  - Maintained a day-long livestream consisting of 5 cameras with no downtime or glitches
- Taekwondo
- Practiced Taekwondo for over 14 years
  - Achieved a Second Dan Black Belt
  - Ran Taekwondo lessons for younger students
  - Won a gold medal in the Singapore National Championships
- Horsemanship
- Schooled and trained horses for 8 years
  - Achieved a 0 goal international Polo handicap
  - Trained horses for polo professionals in Europe for 2 summers in a row, working for room and board
- Cross Country
- Ran competitive cross country for 5 years
  - Won team gold and silver medals from 2011-2014
  - Lead the UWCSEA team to a gold medal as Captain in 2014

## VOLUNTEER WORK

- Computer Building
- Constructed over five desktop computers for friends and family
  - Overclocked my personal computer to 1.3 times its original graphics performance
  - Was paid to custom-build computers to specification for a small financial services business
- Dental Hygiene workshop in Nepal
- Raised funds to bring toothbrushes and toothpaste for an entire school full of underprivileged children in Nepal
  - Spent a day teaching children oral hygiene
- House Building in Cambodia
- Raised funds to build over 15 houses for underprivileged Cambodian hill tribes
  - Traveled to Cambodia and spent a week building houses with 30 other students
- English Teacher at Smiling Hearts School, Cambodia
- Taught English for 2 weeks at a school for the needy in Cambodia
  - Engaged a class of 25 young students (8-10 years old) for 7 hours a day
- Teacher at the Da Qiao Primary School, Singapore
- Taught the children of low-income parents once a week for a year
  - Thought of exciting ways to teach english, math, science and mandarin
  - Led engaging break times with games to give the children breaks from learning