Ted Ying   ted@yingted.com   (647) 624-1168   github.com/yingted

WORK EXPERIENCE

Full-stack Engineering Developer, Remind101   May – Sept. 2014   San Francisco, CA
- Wrote new message sender, which has processed over half a billion events for 7 communication services and 3 encodings
- Added end-to-end Unicode support (e.g. for accented characters and emoji)
- Implemented Kafka and Zookeeper consumer partition rebalancing protocol in Node.js
- Worked on AngularJS front-end
- Fixed bugs and identified vulnerabilities
- Implemented optimizations reducing page load time from 13 s to 5 s for users on slow connections
- Authored a metrics service capable of 360,000 requests per minute on Heroku's free tier

Undergraduate Research Assistant, University of Waterloo   Jan. – Apr. 2014   Waterloo, ON
- Developed fluid animation simulator using spatial data structures based on regular triangulations
- Checked algorithm correctness using CGAL (exact computational geometry in C++ templates)

Developer, Weinreb Ventures   June – Aug. 2013   Mississauga, ON
- Added form validation and input sanitization

Head of Technology, Multiple Sclerosis Mississauga YC   Sept. 2012 – June 2013   Mississauga, ON
- Created a website for event information using Django on Google App Engine

SKILLS

- Languages: **Python, JavaScript, Java, C, Bash**, **C++**, **HTML**, **SASS**/**CSS**, and **Lua**

ACTIVITIES AND INTERESTS

- Ran in-school programming competitions for high school computer science club
  - Ported Turing language VM and runtime (written in C) to GNU/Linux
  - Designed and developed online grader for practice CS competitions
    - Uses ACE (editor), jQuery, Python, LXC (virtualization), and libseccomp (sandbox)
  - Tron game server, clients, example bots, and game recording viewer
    - Uses Twisted (Python evented networking), and Shed Skin (compiler)
- Android app for Teredo (IPv6) tunnelling
  - Uses mksh, pthreads, and bionic libc
- Android app that finds a shortest indoor path between two floors in any two buildings
- Competitive algorithmic programmer:
  - Google Code Jam Online Round 2 Qualifier 2014 (username: `be6bc04805fcbbd1c403f6e9ff9ff6`)
  - Two times Silver Medallist (top 10 in Canada) in the Canadian Computing Competition
  - ECOO team placed first in Ontario
- Interests: reading, skating, and skiing

EDUCATION

Candidate for Bachelor of Software Engineering, University of Waterloo
                                        Sept. 2013 – present   Waterloo, ON
- Developed an IR sensor driver using high dynamic range for robot navigation

High School Diploma, The Woodlands School   June 2013   Mississauga, ON
- Implemented and optimized a 3D renderer in the Turing language