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

WORK EXPERIENCE

Software Engineer Intern, Facebook

Sep. – Dec. 2017 (anticipated)

Menlo Park, CA

• Worked with Zookeeper

Developer Intern, Jane Street Europe Limited

Jan. – Apr. 2017

London, UK

Software Engineering Intern, Google

May - Aug. 2016 Mountain View, CA

• Implemented resizing, synthesizing, quantizing, and serving images with transparency in Images infra

Software Engineer Intern, Dropbox

Sept. – Dec. 2015

San Francisco, CA

- Built service for efficient summaries (histograms, heavy hitters, etc.) over subsets of time series
- Hack project: Service which converts *Neko Atsume: Kitty Collector* screenshots in Dropbox to tabular and chart format using pandas, OpenCV, and R.

Developer, Bloomberg

Jan. - May 2015

New York, NY

• Developed recommendation engine in Python and C++

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
- 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

- Competitive algorithmic programmer:
 - ACM ICPC team placed second in East Central North America 2015 and 2016
 - o Google Code Jam Online Round 2 Qualifier 2014-2017 (username: yingted)
 - Two times Silver Medallist (top 10 in Canada) in the Canadian Computing Competition
 - ECOO team placed first in Ontario
- Currently working on lane detection for WATonomous (SAE AutoDrive Challenge team)
- 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)
- Participated in FIRST Robotics Competition
- Interests: reading, skating, and skiing

EDUCATION

Candidate for Bachelor of Software Engineering, University of Waterloo

Sept. 2013 – present Waterloo, ON

- Prize-winning compiler, featuring self-extracting code, 3 4 times more compact than the second-best
- 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