ANTHONY ZHANG

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↓ WORK EXPERIENCE ↓

Software Engineering Intern	Amazon A9.com	summer 2017

- Created high-precision offline error prediction model for Amazon Search, used to evaluate search result quality.
- Significantly increased search evaluation efficiency through architectural changes and human process reduction.

Software Engineering Intern	Yelp, Inc.	fall 2016

- Implemented international review translation functionality, now available on all Yelp businesses and categories.
- Modernized localization, image rendering, and machine translation components for PaaSTA service platform.

Data Engineering Intern	Mozilla, Inc.	winter 2016

- Developed Apache Spark cluster management service and developer tools for authoring Telemetry data analyses.
- Wrote aggregation services for derived datasets (10x space reduction), used for Electrolysis and stability metrics.

Performance Engineering Intern	Mozilla, Inc.	summer 2015

- Designed and implemented new Mozilla Telemetry website (talk and blog post available online).
- Created Mozilla Telemetry Javascript libraries, performance analyses, and various new Telemetry service features.

Research Assistant	Ryerson University	summer 2013

- Created biosensor simulations for shape optimization (results presented at COMSOL Boston 2013 conference).
- Wrote software for processing and visualizing high-dimensional data with COMSOL/MATLAB.

↓ PROJECTS ↓

SpeechRecognition	git.io/vZaHh

- Authored and lead development of Python library (307k+ installs) used in multiple embedded and IoT products.
- Published 43 releases with comprehensive forward/backward compatibility, documentation, and test suites.

MotionTracking	git.io/JZwtLg

- Authored Blender add-on for 3D point reconstruction from 2D viewpoints (used for VFX in private production).
- Developed raycasting and combinatorial optimization algorithm for optimal point localization.

↓ SKILLS ↓

languages	Python, JavaScript, Lua, C++, C#, Java, Scala, Ruby, SQL, LaTeX, MATLAB
technologies	Spark, Hive, Presto, PostgreSQL, Tensorflow, Keras, Flask, Django, Pyramid, Rails
tools/infra	Docker, Ansible, Vagrant, Git, Mercurial, AWS

↓ EDUCATION ↓

University of Waterloo	class of 2018 (expected)

- Honours Bachelor of Computer Science candidate (University of Waterloo), 84% MAV.