

Valentin Tsatskin



Machine Learning Research Co-op

*Sept–Dec 2015,
Toronto*

- Researched and developed a real-time calibration-free gaze tracking system for large interactive displays in Python and C++.
- Trained and analyzed the model utilizing OpenCV, scikit-learn.
- Co-authored conference paper for IEEE Conference on Electrical and Computer Engineering.
- Experimented with speech analysis for affective rooms.
- Set up and conducted data collection experiments.



Software Engineering Intern

*Jan–Apr 2015,
San Francisco*

- Led team to redesign and engineer internal campaign history tool.
- Won internal Hack Week award for campaign history tool.
- Created a spam detection system for campaign comments.
- Parallelized API acceptance test builds on CircleCI continuous integration system.
- Reimplemented campaign page to be responsive in AngularJS.



User Experience Designer

*Jan–Aug 2014,
San Francisco*

- Redesigned Firefox's network error pages to increase error recovery.
- Prototyped tab-switching concept in Firefox for Android.
- Created interaction designs for Firefox OS' data consumption tool.
- Wrote and conducted usability studies for Firefox OS features.



Gesture Controls Software Developer

*May–Aug 2013,
Waterloo*

- Architected iOS API for the Myo, a gesture-based control system.
- Developed a quadcopter control system for integration with Myo.

*See my github profile for more work and projects: github.com/vtsatskin
You can contact me at val@valtsatskin.com*

Skills

Machine Learning, Image Processing

OpenCV, dlib, scikit-learn, MATLAB, Python

Web Development

HTML5, CSS, React, Angular, Bootstrap, jQuery

Mobile Development

iOS, Web

Backend Development

Ruby on Rails, ASP.Net, MySQL, MongoDB, CouchDB

Data Analysis

R, Python, SQL, MapReduce

Multilingual

Ruby, Python, Elixir, Scala, Objective-C, C++, C, JavaScript, MATLAB, R

Education

Systems Design Engineering

BASc, University of Waterloo, 3B, 2017

Hack the North Co-founder

Oct 2013–Present

- Kickstarted Canada's largest hackathon for 1000+ hackers from 100 schools in 10 countries.
- Defined hackathon's vision and values.
- Led website engineering and design team to create application page for 1000s of applicants using React.