Valentin Tsatskin

architech

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.
- Worked with speech diarization and three.js for 3D visualization of collaboration in rooms.

INDIEGOGO

Software Engineering Intern

Jan–Apr 2015, San Francisco

- Led team to redesign and engineer internal campaign history tool, winning internal award.
- 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 Angular.

mozilla

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's data consumption tool.
- Wrote and conducted usability studies for Firefox OS features.

THALMICLABS

Gesture Controls Software Developer

May–Aug 2013, Waterloo

- Architected iOS API for the Myo, a gesture-based control system.
- Developed a quadrocopter 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, three.js

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 (Hons), 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.