Valentin Tsatskin

Passenger Al

Senior Software Engineer

May 2018–May 2020, Remote, Toronto, ON

- Integrated computer vision machine learning models for vehicle cabin monitoring.
- Built a remote vehicle monitoring frontend and backend using TypeScript, React, and WebRTC.

avec Technical Co-Founder

Nov 2017–Jan 2018, Toronto, ON

- Co-founded a startup to drive more customers into high-end restaurants through marketing 2-for-1 food deals.
- Lead the technical effort to launch an iOS and Android app, GraphQL backend API, and website for the product.
- Architected system to have type safety across all components and their boundaries utilizing Flow, GraphCool, and Apollo.

Pressura Founder

Apr–Nov 2017, Waterloo, ON

- Founded company to prevent pressure injuries in wheelchair using seniors through technological and process improvements in longterm care facilities.
- Created an IoT pressure distribution sensing wheelchair cushion with offline caching capabilities streamed to an iOS and Anroid app.
- Developed a machine learning algorithm to detect users performing pressure relieving exercises while sitting on the wheelchair cushion

facebook Data Scientist Intern

May–Aug 2016, Menlo Park

- Analyzed usage and growth opportunities of an experimental version of the Facebook Newsfeed deployed to millions of users.
- Identified product opporunitites for increasing user retention through flow analysis.
- Conducted a hierarchical clustering analysis of users' interests

Skills

Mobile Development

React Native, iOS, Web

Backend Development

Node, Ruby on Rails, Postgres, MongoDB, CouchDB, Rust

Web Development

React, TypeScript, GraphQL, WebRTC, jQuery, three.js

Machine Learning, Image Processing

OpenCV, dlib, scikit-learn, MATLAB, Python, C++

Data Analysis and Visualization

R, Python, SQL

UX and UI Design

Human Centered Design, Sketch, Framer, Origami Studio

Education

Systems Design Engineering BASc (Hons), University of Waterloo, 2017

Contact & More

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- github.com/vtsatskin
- ♣ Available upon request
- http://valentin.tsatsk.in



architech Machine Learning Research Co-op

Sep-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.
- 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.

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.

HACK THE NORTH

Co-Founder

Oct 2013-Sep 2015, Waterloo, ON

- 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.

(I) 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.

May this whitespace bring you a momentary glimpse inner peace.