Valentin Tsatskin

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Work Experience

Software Engineering Intern

INDIEGOGO

Jan–April 2015
San Francisco, CA

Reimplemented campaign page to be responsive in AngularJS. Created a spam detection system for campaign comments. Parallelized API acceptance test builds on CircleCI continuous integration system. Led team to redesign internal campaign history tool utilizing Human Centered Design methodology and winning hack week award.

AngularJS, HTML, CSS, Javascript, Ruby on Rails, Human Centered Design

User Experience Designer

mozilla

Jan–Aug 2014
San Francisco, CA

Redesigned and implemented Firefox's network error pages to increase understandability and error recovery. Prototyped an experimental tab-switching concept in Firefox for Android. Created interaction designs for Firefox OS' mobile data consumption. Wrote and conducted usability studies of experimental versions of Firefox OS. Created a process and tool which facilitates version controlled, open source design.

Prototyping, User Testing, Interaction Design, HTML, JS, CSS

○ FX-Captive-Portals-Design
○ Fennec-Tab-Experimentation
○ SmartData
○ mozilla-docs

Gesture Controls Software Engineer

THALMICLABS

May–Aug 2013
Kitchener, ON

Architected the iOS API for the Myo, an armband allowing gesture-based control of the electronics around you. Developed a quadrocopter control system for integration with the Myo.

Objective-C, iOS, C#, BTLE API Design, Parrot AR.Drone

Software Developer

Desire2Learn

Sept–Dec 2012
Kitchener, ON

Designed and developed learning tools used by millions of students worldwide. Identified and fixed security issues relating to SQL injection and XSRF. Performed user experience analyses on products.

C#, ASP.Net, Visual Studio, MSSQL, SVN, Web Security

Projects

HACK THE NORTH

Founding Member and Website Lead

Oct 2013–Present

Kickstarted Canada's largest hackathon attracting 1000+ hackers from 100 schools in 10 countries. Helped define hackathon's vision and values. Leading website engineering and design team to create application page for 1000s of applicants.

React, Reflux, Data-driven decisions.

NavajoChat

PennApps Hackathon
Philadelphia, PA

Created a Chrome extension which integrates with Facebook Messenger to encrypt your messages away from the NSA.

http://youtu.be/UDh5X_RjTPY

NavajoChat

Lunch Roulette

Hacktech Hackathon
Santa Monica, CA

Designed Android app which pairs you with people who want to get lunch in your area. Used low-fidelity paper prototyping to do user testing and design validation. Created high fidelity designs and interaction specifications once design was validated.

http://youtu.be/sallK2d_2TU

http://valentin.tsatsk.in/ projects/lunch.roulette.pdf

Beam Deflection Sensor

Circuits & Measurements
Design Project

Created an electrical and computer system to measure the deflection of a beam. Designed and built analog filters using op-amps to filter out signal noise. Graphed deflection in real time using an Arduino.

Electrical Engineering, Signal Processing, Op-amps, Arduino

Pebble v10

Used an Arduino to display arbitary text on an LCD screen. Data transfered over a USB serial connection.

Arduino, Ruby

Pebble-v10

Education

Systems Design Engineering
BASc, University of Waterloo, 3A, 2017

+Acumen
Human-Centered Design

Coursera
Machine Learning,
Human-Computer Interaction,
Functional Programming Principles in Scala,
Principles of Reactive Programming
Introduction to Sustainable Development