

# Victor Moukhortov

🌿 *Curriculum Vitæ* 🌿

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## *Education*

Ryerson University

Computer Programming Applications Certificate, completed April, 2011.

- Software Engineering Stream

## *Experience*

Stars Technologies

(Richmond Hill, ON)

2014 – present

### **Senior Platform Architect**

Lead architecture and development for the company's next-generation web platform. The transition from a multitude of siloed AngularJS applications to the new **TypeScript/React** platform has allowed the engineering organization to be vastly more productive and has led to marked improvements in key business metrics due to dramatically improved user experience, reliability and performance. Key features include:

- Full **SSR** support
- Continuous testing with **Cypress** and **Jest**
- Continuous delivery to **AWS**
- Localization into 30 languages
- Stream-oriented data transfer with **RxJS** and **STOMP**
- Centralized state management with **Redux**
- Template-driven, content-managed pages
- Organization-wide shared components
- Monitoring with **Prometheus** and **ELK**

Using React server-rendering fronted by a **Varnish** cache, we were able to achieve blazing-fast performance for over 100k concurrent users with a >95% cache hit rate. Our micro-service architecture uses **RSocket** for efficient stream-oriented communication between services and a fronting proxy. This design allows a single page to communicate with various services over a single physical connection. This architecture has been able to easily withstand the sudden and significant increase in traffic brought on by the COVID-19 pandemic.

ES3

*(Pickering, ON)*

2012 – 2013

### **Senior Developer**

Led the development of games for ES3's DistracTV games network on the Microsoft Mediaroom IPTV platform using **JavaScript** and the **Google Closure Library**. Several titles have been successfully deployed to clients such as AT&T. Developed a new application framework using **Google Closure Tools** (with advanced optimizations) to allow platform-agnostic core **JavaScript** logic to be shared between multiple platform implementations, including Microsoft Mediaroom and **HTML5** canvas, significantly streamlining ES3's application development process. Conducted an overhaul of ES3's Tumblebooks application written with **HTML5** and **jQuery** for smooth parallax animations.

Intel Corporation

*(San Francisco, CA)*

2013

### **Development Consultant**

Assisted Intel Media with proprietary **WebGL** software architecture and third-party application development for their OnCue IPTV service.

Bluenotion Inc.

*(Toronto, ON)*

2011 – 2012

### **Web Developer**

Developed an internationalized wireless product platform for client Rogers Communications Inc. with **Java**, **MySQL**, **AJAX**, **HTML5** and **CSS3** using a bilateral MVC design pattern. This platform opened a new stream of revenue for Rogers, allowing them to offer flexible wireless campaigns on a streamlined, interactive purchase-flow. Conducted a total overhaul of a personalized insurance platform for client Manulife Financial Corporation using **PHP**, **HTML5** and **CSS3**, resulting in a more efficient, standardized code base for ease of future use and expansion. Other responsibilities included:

- Developed the dynamic front-end for a stand-alone online chat application for client Rogers Communications Inc. using **JavaScript**, **HTML5** and **CSS3**.
- Adhered to web best-practices when building landing pages to support numerous, high-visibility media campaigns for client Rogers Communications Inc. under very tight deadlines.
- Outlined and proposed a stand-alone, internationalized catalogue and campaign management API for client Rogers Communications Inc. using **REST** and **NoSQL**.

## Forus Group Inc.

(Toronto, ON)

2010 – 2011

### **Web Developer / Marketing Coordinator**

Designed and developed a modern web presence for Forus Group Inc., an international purchase agent, using **PHP**, **JavaScript**, **HTML5** and **CSS3** to create an elegant, interactive user interface. Enhanced and updated Forus' Canadian web site network built in **Joomla**. Used **Adobe InDesign** and **Adobe Illustrator** to create Forus' Canadian brand identity, including an extensive product catalogue.

- Supervised sales and leads management
- Created company's Canadian forms and contracts

## Carson Woods Architects Limited

(Toronto, ON)

2007 – 2009

### **IT Manager / Administrator**

## Canadian Armed Forces

(Toronto, ON)

2007

### **Infantry Private**

## *Entrepreneurial Experience*

### Hubble Media

(Toronto, ON)

2003 – 2007

### **Co-Founder**

Supervised the development, launch and administration of an extensive network of media web sites. Created original content with varying themes and tones targeted at various audiences. Expanded the custom CMS used for these web sites, made with **PHP** and **MySQL**. Initiated successful cross-continental digital and physical marketing campaigns to promote the network, which includes the following web sites:

- Educated Earth
- Toronto Forums
- Bring Me Pie
- War Videos
- Smash My iPod
- Nerd Links

# *Skills*

## Languages

Bash, CSS, English, JavaScript/ES.Next, LESS, NoSQL, PHP, Python, Russian, SQL, SVG, TypeScript, UML, Velocity, (X)HTML, XML, Zsh

## Architecture & Design

Front-end Optimization, Enterprise Architecture, Functional Programming, Microservice Architecture, MVC, Needs Assessment, OOP, SCSS, SEO, Stream-Oriented Architecture, TDD, User Experience Design, Web Accessibility, Web Security

## Applications & Frameworks

Adobe Creative Suite, AngularJS, AWS, Cypress, Git, Google SketchUp, Jasmine, Jenkins, Jest, JetBrains, Material UI, Kubernetes, Microsoft Office, Mocha, MongoDB, NodeJS, PostgreSQL, React, RSocket, Unreal Engine, VSCode

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References available upon request.