

Mike Belanger

Fullstack Developer

He/Him
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PROFESSIONAL SUMMARY

I'm a full-stack developer with 8 years of experience. I've used Ruby on Rails and React for most of my professional web development. I've used some Python and Scala during my data-processing at Weather Telematics. My current areas of interest are full-stack development in the context of artificial intelligence and geospatial applications.

SKILLS

Backend: Docker, Node.js, Podman, Ruby on Rails

Frontend: Angular, Bootstrap, JavaScript, MaterialUI, OpenLayers, React, Responsive Web Design, TypeScript, Webcomponents

Other: Agile Software Development, Blender, Git, Local-first, Puppeteer, Rust, Webassembly

WORK EXPERIENCE

Kongsberg Geospatial Inc.

Software Developer

Ottawa • 04/2024 - Present

Full-time

- Obtained "Secret" security clearance.
- Developed and deployed a React-based web interface for classified defense projects.
- Works on React-based frontends which work alongside Openlayers
- Modified Node.js-based backends to interface with various microservices.

IMRSV Data Labs Inc.

Software Developer

Ottawa, Ontario, Canada • 12/2020 - 08/2023

Full-time

- Obtained Canadian security clearance.
- Created **React**-based web interfaces for various classified **defense** projects, and many **proof-of-concepts**. These were done in a high-paced environment with little supervision or guidance. Much of this work was in creating geospatial visualizations using **Leaflet** and **OpenLayers**.
- Scoped out the implementation of various geospatial related pages.
- Added to existing interfaces for a **React Native** mobile application. This application helped retail workers manage customers.
- Worked with server-side technologies in both **Python** and **Node**.
- **Communicated** with various **stake-holders** about new technologies and requirements, such as external sub-contractors and service-providers.

Weather Telematics Inc.

Ottawa, Canada Area • 07/2017 - 11/2017

Junior Developer

- Analyzed weather and traffic data using **Apache Spark**, a big data processing and analytic engine using both **Python** and **Scala** scripts which would allow drivers to receive real time notifications if a specific set of conditions were met.
- Used **QGIS** to segment specific Autobahn routes into **GPS** points that were all 200 meters apart. These points ultimately determined where road weather conditions would be modelled. This modelling was done for Daimler AG for a **proof of concept**.
- Implemented additional functionality for Weather Telematics' web portal. The portal was a **Single Page Application** (SPA) built using **Angular** which showcased weather predictions and road conditions on a map using the **Leaflet** display library.

Fluent Solutions Inc.

Ottawa, Canada Area • 11/2017 - 10/2018

Junior Developer

- Worked **directly with customers** to solve their specific requirements.
- Took ownership of entire **Ruby on Rails** projects.
- Defined **project scope** for newer, significant customer requirements and additions.
- Developed and improved websites running **Ruby on Rails, Bootstrap, Material Design**, and **Angular.js**. Implemented business logic that met the required usage cases using a TDD approach.
- Used **server-side rendered** HTML for most pages.
- Debugged ActionCable (Ruby on Rails' **WebSocket**) API.
- Wrote front-end code with Javascript, **TypeScript** and occasionally Coffeescript.
- Designed UI mockup work using Inkscape and Pixelmator.

theSpace Ottawa

Ottawa, Canada Area • 05/2017 - 03/2020

Workshop Facilitator

- Taught Graphics Design Workshops using Blender, Krita, Goxel and MagicaVoxel as well as other open-source tools.
- Created learning material and adapted my workshops for young adults diagnosed with mental disabilities.

CPA Plus

Ottawa, Canada Area • 06/2016 - 05/2017

Marketing Researcher

- Researches potential company clients.
- Wrote advertisements and video scripts.
- Authored promotional scripts and prospective client research using Google Docs.

MD Physician Services

Ottawa, Canada Area • 08/2014 - 09/2015

Filing Administrator (Term position)

- Ensured invoices, payroll information and other important documents were filed and/or scanned.

- Proposed, and authored a Python-based scripting system for the automation of document sorting.

Children at Risk

Ottawa, Canada Area • 07/2012 - 08/2014

Peer Buddy

- Work with older, autistic children/teenagers at Children at Risks' various camps.

Canadian Mental Health Association

05/2011 - 08/2011

Summer Staff

- Worked alongside members of the CMHA's ACTT (Assertive Community Treatment Team)'s division on providing mental health services to clients. Researched strategic planning initiatives for the organization as well.

EDUCATION**Bachelor of Cognitive Science in Cognitive Science**

Carleton University • GPA: 2.7

Ottawa • 01/2010 - 01/2014

- Co-authored a peer-reviewed journal publication.
- Implemented an attentional model (Emergent Network Architecture) for an AI system using Python, which simulated **eye-tracking** movements.
- Established a revision control system (**git**) for the AI model's codebase.
- Documented various wiki articles regarding the AI model.

Diploma in Animation, Interactive Technology, Video Graphics and Special Effects

Algonquin College of Applied Arts and Technology

01/2004 - 01/2007

- Worked with Alias Wavefront Maya, Adobe Photoshop, and Apple Final Cut Pro.
- Developed an understanding of polygonal modelling with Blender.

CERTIFICATIONS**The Bits and Bytes of Computer Networking**

Coursera

10/2021 - Present

An Introduction to Interactive Programming in Python (Part 1)

Coursera Course Certificates

07/2015 - Present

edX Verified Certificate for Systematic Program Design – Part 1

edX

07/2015 - Present

Level A CPR

06/2011 - 06/2014

Nonviolent Crisis Intervention

07/2012 - 07/2013

edX Verified Certificate for HTML5 Introduction

edX

VOLUNTEERING & LEADERSHIP

Artengine

Workshop instructor

07/2012 - Present

Conducted workshops focused on Blender 3d.

PUBLICATIONS

WikiSilo: A Self-organizing, Crowd Sourcing System for Interdisciplinary Science

01/2014

Proceedings of the 36th Annual Conference of the Cognitive Science Society (CogSci 2014)