

# Mike Belanger

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## Summary

I'm a full-stack developer with 8 years of professional experience. I'm experienced in building frontends with React and "vanilla" javascript. I'm also experienced building and maintaining backends with Ruby on Rails, Node.js (Express), and Python (Flask). I've obtained Canadian security clearances (Nato, "secret").

## Top Skills

- **Design & UX:** Adobe Photoshop, User Experience (UX), Balsamiq
- **Programming Languages & Frameworks:** TypeScript, React, Ruby On Rails, Ruby, Python
- **Quality Assurance:** Vitest, Test Driven Development (TDD), Puppeteer, Playwright

## Experience

### Kongsberg Geospatial

*Software Developer*

**May 2024 - Present**

*Canada*

- Obtained "Secret" security clearance.
- Develop React-based frontends with OpenLayers in TypeScript, prioritizing user experience and maintainable code.
- Modified Node.js backend to interface with various microservices, contributing to backend development and ensuring code maintainability.

### IMRSV Data Labs

*Software Developer*

**Dec 2020 - Aug 2023**

*Ottawa, Ontario, Canada*

- Obtained Canadian security clearance.
- Created React-based web interfaces in TypeScript for classified defense projects, focusing on intuitive UX and maintainable code in a high-paced environment.
- Scoped out the implementation of various geospatial related pages.
- Enhanced React Native mobile interfaces in TypeScript for a retail workforce application, improving user experience.
- Collaborated on backend development using Python and Node.js, integrating APIs for seamless frontend-backend communication.
- Communicated with various stake-holders about new technologies and requirements, such as external sub-contractors and service-providers.

### Weather Telematics Inc.

*Junior Developer*

**Oct 2018 - Mar 2020**

*Ottawa, Canada Area*

- 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.

### theSpace Ottawa

*Workshop Facilitator*

**May 2017 - Mar 2020**

*Ottawa, Canada Area*

- 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.

### Fluent Solutions Inc.

*Junior Developer*

**Nov 2017 - Oct 2018**

*Ottawa, Canada Area*

- 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.

### Weather Telematics Inc.

*Junior Developer*

**Jul 2017 - Nov 2017**

*Ottawa, Canada Area*

Maintained Weather Telematics' web portal using Angular, Typescript. Debugged python-based backend. Supported and scoped out related web projects.

### **CPA Plus**

*Marketing Researcher*

**Jun 2016 - May 2017**

*Ottawa, Canada Area*

### **MD Physician Services**

*Filing Administrator (Term position)*

**Aug 2014 - Sep 2015**

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

### **Children at Risk**

*Peer Buddy*

**Jul 2012 - Aug 2014**

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

### **Canadian Mental Health Association**

*Summer Staff*

**May 2011 - Aug 2011**

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.

### **St. John Ambulance Kenora**

*Volunteer and Public Relations Coordinator*

**Feb 2010 - Aug 2010**

*Kenora, Ontario, Canada*

Drove a public-relations campaign for Saint John Ambulance, and recruited volunteers for its Kenora branch. Organized volunteers at events as well.

### **Pristine Labour**

*Labourer*

**2009**

Various duties, including laying down water tile, water-proofing roofs, and other tasks associated with mid-rise buildings.

## **Languages**

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- English

## **Certifications**

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- edX Verified Certificate for HTML5 Introduction
- edX Verified Certificate for Systematic Program Design - Part 1
- An Introduction to Interactive Programming in Python (Part 1)

## **Publications**

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

## **Education**

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### **Carleton University**

*Bachelor of Cognitive Science, Cognitive Science*

**2010 - 2014**

### **Algonquin College of Applied Arts and Technology**

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

**2004 - 2007**