

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.

Oct 2018 - Mar 2020

Ottawa, Canada Area

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.

theSpace Ottawa

May 2017 - Mar 2020

Ottawa, Canada Area

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.

Fluent Solutions Inc.

Nov 2017 - Oct 2018

Ottawa, Canada Area

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.

Weather Telematics Inc.

Jul 2017 - Nov 2017

Ottawa, Canada Area

Junior Developer

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)

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

Aug 2014 - Sep 2015

Children at Risk

Peer Buddy

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

Jul 2012 - Aug 2014

Canadian Mental Health Association

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.

May 2011 - Aug 2011

St. John Ambulance Kenora

Volunteer and Public Relations Coordinator

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

Feb 2010 - Aug 2010

Kenora, Ontario, Canada

Pristine Labour

Labourer

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

2009

Languages

- English

Certifications

- 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

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

Education

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