

# Mihajlo Micic

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## Experience

### ConSalt Inc.

Software Developer

CA, ON, Hamilton

September 2023 - Present

- **Led** development of enterprise collaboration platform, building real-time conversation management system with **Python/FastAPI** backend and **Next.js** frontend deployed via **Docker** on **AWS ECS**, implementing **RAG-based task extraction** from meeting notes using **OpenAI** APIs that reduced manual task entry by 75% and improved team productivity by 40% across 48+ production deployments.
- **Architected** document-processing pipeline integrating **Google Workspace APIs** for **automated meeting note analysis**, implementing context-aware conversation threading with orphaned session cleanup, and building immediate user feedback systems that reduced response latency from **3s** to **<500ms** and increased user engagement by **60%**.
- **Delivered Salesforce automation solutions** with custom **Apex classes** and **Lightning Web Components** for order processing workflows, implementing email automation and form validation that processed **\$1M+** in seasonal transactions while reducing manual processing time by **40%** and eliminating order errors.
- **Spearheaded** the creation of a **Full Stack** application utilizing **React**, **Flask**, and **SQL** to **automate** vehicle dispatch, enhancing operational efficiency for **200+ clients**. Implemented weather-based routing algorithms and analytics, resulting in a **25%** reduction in dispatch times.

### York Region

Data, Analytics and Business Solutions Analyst

CA, ON, Newmarket

May 2022 - April 2023

- **Developed Python ETL** pipeline for parsing and standardizing traffic disruption data to **Waze CCP** specifications, processing **30K+ daily events** from multiple municipal sources, reducing processing time by **70%** and improving real-time routing for **100K+ daily commuters**.
- **Built** interactive BI solutions using **PowerBI**, **Tableau**, and **ArcGIS Online**, creating **15+ dashboards** and story maps visualizing transportation patterns, infrastructure metrics, and spatial analytics for executive decision-making.
- **Engineered** geospatial data processing systems using **Python**, **SQL**, and **Esri ArcGIS Pro APIs** to automate spatial analysis workflows, integrating multiple GIS datasets, reducing manual mapping by 60% while improving data accuracy for transportation planning.
- **Designed** and **deployed** web mapping applications leveraging **ArcGIS Online REST APIs** and **JavaScript**, creating responsive visualization tools enabling 200+ municipal staff to access real-time infrastructure data.

### Ontario Institute for Cancer Research

Bioinformatics Analyst

CA, ON, Toronto

January 2021 - April 2021

- **Analyzed** 50+ TB of genome sequencing data using **Python**, **R**, **PLINK**, and **scikit-learn**, implementing complex ML algorithms and statistical models to uncover genetic associations and identify potential biomarkers.
- **Automated** analysis workflows reducing processing time by **50%** through custom scripts and pipelines.
- **Conducted** pathway analysis and clinical association studies, discovering novel disease mechanisms.

## Project

### Hackathon Winner (3rd Place) | Pathly - Safety-First Transit Companion

[github.com/micic-mihajlo/pathly](https://github.com/micic-mihajlo/pathly)

July 2025 - July 2025

- **Built** a real-time safety navigation app for Toronto international students (Next.js 15, TypeScript, Mapbox GL). Converted crime data into a risk-weighted hex grid with **~98%** geo-join accuracy.
- **Implemented** multi-modal routing with TTC GTFS-realtime + Google APIs; reduced exposure to high-risk areas **~40%** with travel-time impact **<10%**; sub-200ms type-ahead search; auth via Clerk + Supabase.
- **Added** "safe check-in" and trip-share features; wrote tests and CI to keep bundle size **< 1.5 MB** and TTI **< 2 s** on mid-range Android.

## Education

### Geomatics

University of Waterloo • Minor in Computer Science

Waterloo, ON

2024

- Faculty of Environment Entrance Scholarship and University of Waterloo President's Scholarship Recipient.

## Skills

**Languages:** JavaScript/TypeScript, Python, SQL, HTML5/CSS3, C++, C#, Apex, Go

**ML/AI:** PyTorch, scikit-learn, RAG/embeddings, prompt engineering, evaluation, OpenAI & OpenRouter APIs

**Frameworks:** React, Next.js, Node.js, FastAPI, Flask, Django, Three.js, Tailwind CSS

**Tools:** AWS, Git, Docker, PostgreSQL, Firebase, Supabase, Mapbox, ArcGIS, Tableau, PowerBI, Salesforce

**APIs:** OpenAI, Google Workspace, Stripe, Clerk, Google Maps, Mapbox Geocoding