

PATRICK MIHALCEA

SOFTWARE DEVELOPER

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WORK EXPERIENCE

2023 - PRESENT

Capco Consulting

Software Developer

- Led the development of AI proof-of-concept solutions for Capco's AI Solutions Lab, delivering client demos that secured multiple six-figure contracts for full-scale deployments.
- Engineered and deployed full-stack AWS-hosted application using Bedrock to automate customer-feedback responses for enterprise banking teams.
- Coordinated with client cloud and security teams to align architecture with enterprise standards, strengthening compliance and operational readiness.
- Developed REST APIs connecting a Tier-1 insurer to Fiserv backend system, supporting daily transactional volumes of 5,000+ requests with 99.9% reliability.

2021 - 2022

Petro-Canada Lubricants

Business Analytics Intern

- Automated four legacy KPI reports by building SQL-driven Power BI dashboards sourced from SAP, cutting reporting and analysis time by over 95%.
- Built VBA/Python macros and workflows that generated dynamic Excel calendars for site-wide vacation requests, eliminating reliance on a costly third-party subscription tool.

PROJECTS

2025

+ AI Social Media Automation Tool

- Built a Python automation pipeline and custom DALL-E 3 controller to produce thousands of images for multi-account social media growth, optimizing costs by using Selenium-driven site interactions instead of high-volume API calls.
- Deployed autonomous video-posting workflows across major platforms using Google Drive API and third-party tools enabling hands-free daily uploads.

2023

+ Machine Learning Traffic System Thesis

- Designed a Unity simulation and used TensorFlow to convert proximity and sensor inputs into steering and speed outputs.
- Replaced traffic lights with an ML system achieving 3.6x throughput and 90% less stop time, earning global recognition.

SUMMARY

Tech enthusiast and self-starter with a strong Computer Science and Business background, focused on translating business needs into the architecture and implementation of technical solutions. Blends hands-on building with leadership to bring teams together and secure major client wins. Excited to collaborate and achieve great things together. Eligible for U.S. work authorization under the TN visa.

SKILLS

- **Languages & Front-End:** Java, Python, TypeScript, JavaScript, C#, C++, HTML/CSS, Angular, React, Tailwind
- **Back-End & Cloud:** Spring Boot, NestJS, Node.js, AWS, Azure, REST APIs, PostgreSQL, MongoDB, Kafka, Maven
- **DevOps & Reliability:** Docker, Git & version control, Cucumber, Jira, JUnit, Postman
- **Data Analytics:** SQL, VBA, Power BI, Tableau

EDUCATION

2018 - 2023

BACHELOR'S IN COMPUTER SCIENCE

- Western University
- GPA: 4.0 / 4.0

2020 - 2023

BACHELOR'S IN BUSINESS ADMINISTRATION

- Ivey Business School
- GPA: 3.8 / 4.0

CERTIFICATIONS

- AWS Cloud Practitioner
- SAFe AGILE Development
- SDLC Certification