

PATRICK MIHALCEA

SOFTWARE DEVELOPER

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WORK EXPERIENCE

2023 - PRESENT

Capco Consulting

Software Developer II (Promoted in second year)

- Engineered and deployed a full-stack, AWS-hosted conversational AI application using AWS SDKs, provisioning Bedrock, S3, Fargate, Lambda, and VPC resources to automate customer service responses for an enterprise bank.
- Led development of several cloud-hosted AI proof-of-concept solutions and delivered customer-facing demos that secured multiple six-figure contracts for full-scale deployments.
- Developed Spring Boot RESTful APIs and Cucumber automation testing to connect a Tier-1 insurance firm to Fiserv backend system, supporting daily volumes of 5,000+ requests.
- Modernized an XML-based SQL system by deploying a Spring Boot RESTful microservice backed by MongoDB, delivering a 75% read/write performance improvement for enterprise client.

2021 - 2022

Petro-Canada Lubricants

Business Analytics Intern

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

SUMMARY

Tech enthusiast with 4 years of developer experience, focused on translating business needs and ambiguity into the architecture and implementation of technical solutions. Trusted to lead teams by blending hands-on building with strategic leadership to bring people together and secure major project 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, AWS, NestJS, Node.js, Azure, RESTful APIs, PostgreSQL, MongoDB, Kafka, Maven
- DevOps & Reliability:** Docker, Git & version control, Cucumber, Jira, JUnit, Postman
- Data Analytics:** SQL, VBA, Power BI, Tableau

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 Unity simulation and used TensorFlow to convert car 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.

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