

# GABRIEL MITELMAN TKACZ

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## EDUCATION

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### Electrical Engineering and Computing

2026-2027

*Mackenzie Presbyterian University, Faculty of Computing and Informatics*

Master's degree

### Computer & Information Systems

2022-2024

*Mackenzie Presbyterian University, Faculty of Computing and Informatics*

Bachelor's degree

### Computer Systems Analysis and Development

2022-2024

*Mackenzie Presbyterian University, Faculty of Computing and Informatics*

Associate's degree

## PROFESSIONAL EXPERIENCE

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### Full Stack Software Engineer

2024-Present

*FlxPoint - Jacksonville, FL, USA (Remote)*

- Designed, developed, and maintained bespoke eCommerce solutions tailored to client needs.
- Engineered full-stack solutions using Vue.js for front-end, Java for back-end, AWS for cloud automation and Flyway/PostgreSQL for structured data management.
- Ensured seamless integration and functionality within the core commerce automation platform, including customer-facing REST APIs for advanced user usage.
- Developed custom machine learning models to streamline customer product categorization and publishing workflows.
- Developed an in-app chatbot using RAG and LLM APIs to streamline customer support and user onboarding time.

### Software Engineer II

2024-2024

*Libra Energia - São Paulo, SP, Brazil*

- Developed and maintained a diverse portfolio of internal applications, including websites, risk curve generators, and contract pricing tools.
- Led a key initiative to containerize all internal applications, improving development time, deployment and scalability.
- Engineered specialized data science tools such as hydric prediction models to support energy trading operations.
- Managed the full software development lifecycle, from requirements gathering and design to implementation and deployment.
- Collaborated with cross-functional teams to deliver high-quality solutions aligned with business objectives.

### Software Engineer

2022-2024

*Giant Steps Capital - São Paulo, SP, Brazil*

- Developed a wide array of applications for post-trade processes, including web tools, REST APIs, and data conciliation and automated billing routines for Latin America's largest quantitative asset manager.
- Engineered systems for world-wide stock exchange messaging and critical data engineering pipelines.
- Utilized a diverse technology stack including Python (Django, Flask), Kafka, Airflow, PostgreSQL, and AWS services.
- Built front-end interfaces and management tools using Typescript, Vue.js, and Vuetify consuming from APIs built with Django, DRF and Graphene.
- Collaborated with cross-functional teams to ensure seamless integration and optimal performance of post-trade systems.

### Junior Full Stack Developer

2022-2022

*scandiweb - Riga, Riga, Latvia (Remote)*

- Developed dynamic and robust e-commerce marketplaces using Magento, Akeneo PIM, ScandiPWA, and React.js.
- Engineered comprehensive e-commerce solutions, from back-end infrastructure to front-end interfaces.
- Built engaging and scalable online platforms tailored to evolving client needs.
- Focused on ensuring seamless user experiences and efficient application performance.

## CERTIFICATIONS, AWARDS AND HONORS

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### AWS Academy Machine Learning Foundations

Year: 2024

AWS

## **AWS Academy Cloud Foundations**

Year: 2024

AWS

## **Red Hat System Administration I & II**

Year: 2024

Red Hat

## **Test of English as a Foreign Language (TOEFL)**

Year: 2018

ETS

## **Cambridge English Certificate of Proficiency in English (CPE)**

Year: 2016

Cambridge University Press & Assessment English

## **EXTRACURRICULAR EXPERIENCE**

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### **Researcher & Engineering Infrastructure Coordinator**

*Student Academic League of Artificial Intelligence and Data Science, Mackenzie Presbyterian University*

- Orchestrated robust DevOps pipelines for machine learning model development and deployment.
- Implemented synthetic data generation to create high-quality training material for ML models.
- Established continuous monitoring of model performance to enable early detection of model drift.
- Ensured the long-term effectiveness and accuracy of deployed models through proactive maintenance.

### **Research Assistant**

*Centre of Regulation and Democracy, Insper Research Institute*

- Developed innovative technologies to bridge the gap between computer science and legal research.
- Applied machine learning, NLP, and web scraping techniques to enhance juridical research.
- Streamlined research processes for the Center for Regulation and Democracy through technology.

## **OPEN SOURCE CONTRIBUTIONS**

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**Creator / Core Maintainer** *smart\_commit*, *temporal\_adjusters.py*, *coverage-pre-commit*, *pynimbar*, *ue4ss\_modmanager*, *sort.me*, *Real NBA Draft History*, *CS2 Reference*

### **Contributor**

*Django REST Framework*, *python-dateutil*, *Box*, *more-itertools*, *python-telegram-bot*, *boltons*, *whenever*, *Sherlock*, *NanoCell*

## **SKILLS**

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**Python** (Django, DRF, Flask, Pandas, PyTorch, OpenCV, scikit-learn, Celery, Selenium, BeautifulSoup, Tkinter, Graphene, Pydantic, HuggingFace)

**JavaScript** (Node.js, React, Vue.js, Next.js, Vite, jQuery)

**Java** (JDBC, JPA, JSP, Springboot, Wildfly, POI, iText, jOOQ, Thymeleaf)

**PHP** (Magento, ScandiPWA)

**AWS** (S3, RDS, EC2, Elastic Beanstalk, CloudWatch, Route 53, CodePipeline, CodeBuild)

**SQL** (PostgreSQL, MySQL, DuckDB, Microsoft SQL Server, SQLite, H2)

**NoSQL** (MongoDB, Redis)

**DevOps** (Git, GitHub Actions, GitLab CI/CD, Travis CI, Docker, Docker Compose, Gunicorn, Unix, GNU Make, Apache Kafka)

**Data Science** (Mathematical Modelling, Data Analysis, Statistics, Machine Learning, Artificial Intelligence, Fine-Tuning, RAG, Zero-Shot Classification, Cross-Encoder Rerankers, Natural Computing)

**Agile Methodologies** (Scrum, Kanban, Lean, XP)

**Object-oriented Programming** (SOLID, GRASP)