

Rafael Wiska-Ilnicki

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EDUCATION

Georgia Institute of Technology

Online Master of Science, Computer Science (Interactive Intelligence Specialization)

January 2024 – January 2026

Atlanta, GA

University of Guelph

Bachelor of Computing, Software Engineering (Co-op), Minor in Business

September 2018 – April 2023

Guelph, ON

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, Go, Bash, HTML5/CSS

Frameworks: Django, Streamlit, Pandas, React, Angular, Next.js, CassandraDB, MongoDB, PostgreSQL, Spring Boot

Developer Tools: Git, Docker, Kubernetes, Jenkins, Terraform, Chef, Postman, JIRA, GCP, AWS, Azure

EXPERIENCE

Full-Stack Software Engineer – Innovation Lab

Interac

May 2022 – January 2023

Toronto, ON (Remote)

- Developed and optimized an **insights platform** with an **end-to-end Python ETL pipeline** for corporate foresight and innovation teams, achieving a **50% increase** in data processing efficiency for faster decision-making
- Leveraged **advanced data science and text mining techniques** to analyze large datasets, extracting valuable insights and identifying emerging trends, reducing data processing time by **60%** and improved accuracy by **20%**
- Designed and implemented visually stunning **data visualizations** and **intuitive dashboards in React**, leading to a **30% increase in data-driven decision-making**

Backend Software Developer – CSP Foundation

NCR Corporation

January 2022 – April 2022

Waterloo, ON (Remote)

- Implemented new features with the backend Java banking services team, resulting in a **20% increase in system efficiency** and a **15% improvement in overall performance**
- Deployed **REST API microservices** using **Docker and Kubernetes**, achieving a **40% reduction** in response time and a **30% increase** in scalability to handle high traffic volumes
- Architected a robust logging system using **CassandraDB** and **Elasticsearch**, enabling efficient and real-time search capabilities with a 30% improvement in search performance and **reducing query response time by 25%**

Data Engineer and Research Assistant

University of Guelph

May 2019 – August 2019

Guelph, ON (On-site)

- Built a highly efficient criminal offense **categorization engine** for national ancestry **record linkage** projects, enabling the processing of over **2000 records per second** with **98.3% accuracy**
- Applied advanced manual and automated **data cleaning** techniques to large databases of historical records, resulting in a **30% reduction in errors**, improving overall data quality and reliability
- Utilized **fuzzy matching** algorithms and **data matching** principles to successfully **sort and link millions** of historical records, achieving a **95% accuracy** rate and enabling seamless integration of disparate datasets

ADDITIONAL WORK EXPERIENCE

Teaching Assistant

School of Computer Science, University of Guelph

September 2019 – April 2023

Guelph, ON (On-site)

Course Content Creator

Ontario Veterinary College

June 2020 – September 2021

Guelph, ON (Remote)

PROJECTS

RIPLab (Rafael's Image Processing Lab) | Python, Flask, SQLite, React, Typescript

2023

- Full-stack webapp and RESTful API for image editing and processing

CVstore | Python, Flask, React, PostgreSQL

2022

- Automatically tracks and updates the status of job applications using Natural Language Processing techniques
- Awarded third overall in *Hack The Job* Hackathon