





ROMINA CARABA

DATA SCIENTIST

CONTACT

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 Richmond Hill, Ontario, Canada

SKILLS

Programming Languages: Python, Go, PHP, Javascript, JSON, CSS, PostgreSQL, HTML, CSS

Cloud Computing: AWS, GCP, Kafka

Frameworks/Tools: REST APIs, Swagger, Insomnia, WordPress, Tableau, Unix, Windows, MacOS, git, bash, Metashape, Codefresh

EDUCATION

2022 • **Nanodegree Intermediate Python**, Udacity, Waterloo, Canada

2019 • **Diploma in Data Science**, Brainstation, Toronto, Canada

2018 • **M.S. in Bioinformatics**, Technical University of Dresden, Germany

2015 • **B.S. in Physics**, West University of Timisoara, Romania

REFERENCES

Available upon request.

WORK EXPERIENCE

Data Scientist

Metrolinx | *Python, Power BI, Machine Learning, Data Analysis*

Aug 2023 - Present

- Developing and deploying machine learning models to enhance operational efficiency and decision-making.
- Creating dynamic dashboards that provide real-time analytics and facilitate data-driven strategies.
- Collaborating with the data engineering team to ensure rigorous testing and validation of data processes.
- Utilizing advanced statistical techniques to analyze complex datasets and uncover trends that support organizational goals.

College Professor

Centennial College Computer Science | *HTML, CSS, Linux*

Jan 2023 - May 2023

- Currently teaching COMP213 and COMP301 in the School of Engineering Technology and Applied Science.
- Teaching computer science courses, managing classes, lecture and laboratories. Grading assignments, monitoring students progress and offering feedback.

Software Engineer (Contractor)

Rebuy Engine | *PHP, Javascript, CSS, TestSigma, git*

Apr 2022 - Nov 2022

- Used PHP, Javascript, and CSS to solve customer tickets, and improve customer satisfaction by 20%. Designed, coded, debugged and documented solution to various tickets. Enhanced existing product functionality, reducing churn risk.
- Conducted QA testing, including developing plans and utilizing TestSigma automated testing suite. Identified bugs during QA testing and created corresponding triage tickets.

Backend Developer

Heliolytics | *Python, GCP, Docker, Codefresh, SQL, git, JSON*

Nov 2021 - Mar 2022

- Developed Python backend code to automate image processing, resulting in a 50x improvement in speed and elimination of human errors.
- Implemented the first automated testing guidelines for identifying gaps in product development lifecycle software testing.
- Managed and customised Docker containers using GCP and Codefresh for efficient deployment.

Backend Developer (Contractor)

Starship Dreams | *Go, Docker, AWS, Rest APIs, SQL, git, JSON*

Nov 2020 - Jun 2021

- Scaled API code to accommodate over 1 million users through the use of Go.
- Boosted data processing speeds by 100x by overhauling legacy databases.
- Reduced overhead costs by \$200k annually via automation of shipping-related tasks.
- Successfully deployed, customized, and managed AWS Docker containers.

Owner, Web Developer

Minyum Labs | *Wordpress, HTML, CSS, PHP*

Jun 2020 - Present

- Elevated online presence of small businesses and non-profits through website development, maintenance, support, and SEO.
- Generated website traffic analytics and implemented cloud deployment for enhanced user experience.
- Successfully created/improved websites for regional art gallery and e-commerce businesses.

Machine Learning Developer (Contractor)

NovaceneAI | *Python, SQL, Tensorflow*

Mar 2020 - Nov 2020

- Processed and organized 20K bilingual survey responses by utilizing NLTK and pandas, resulting in significant data deduplication.
- Developed predictive models for mid-2020 COVID-19 case numbers in Canada through thorough analysis of available data.

Robotics Teacher

Crania Schools | *LEGO Robotics, Javascript*

Sep 2019 - Mar 2020

- Instructed K-12 students in Robotics and programming using LEGO robotics kits, as well as mathematics.
- Documented and communicated student progress toward course goals, identifying areas for improvement