

Rene Gonzalez

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Education

University of Waterloo

Bachelor of Honours Computer Science Candidate

Waterloo, Canada

Graduating April 2026

Technical Skills

Languages Python, C/C++, TypeScript, JavaScript, HTML/CSS, Java, Scala, Go, Rust, Solidity, SQL, Shell, Bash

Technologies PostgreSQL, AWS, MongoDB, REST APIs, Firebase, Node.js, React Next.js, Express.js, Flask, Web3, Linux, Git, Microsoft Azure, Docker, Jest, Kubernetes

Experience

Workplace Safety and Insurance Board (WSIB)

Waterloo, Canada

Full-Stack Developer Intern

Jan. 2024 – Apr. 2024

- Led **6** engineers to develop an end-to-end GenAI application to streamline document simplification for **4,000+ employees** using **React**, **Flask**, **GPT-4**, and **Azure Web Services**.
- Benchmarked **15+ LLMs** by designing an internal evaluation framework with **Python** and **Facebook AI Similarity Search**.
- Enabled deeper customer experience insights by creating a sentiment analysis tool using **OpenAI Whisper** and **Azure AI**.
- Transformed patient performance evaluation through motion pattern analysis by developing a physiotherapy assessment framework using **OpenCV**, **MediaPipe** and **Python**.

Toolbx

Toronto, Canada

Software Engineer Intern

May 2023 – Aug. 2023

- **Automated 10,000+ monthly sales quotes** by developing an **RPA system** with **Typescript** and **Google Cloud Vision**, simulating human operations on Windows to enhance efficiency, and reduce costs and errors.
- **Improved performance by 25%** between Web App and REST API by enhancing and optimizing **PostgreSQL** queries.
- Showcased **25+ developed software features** to company stakeholders during daily syncs and bi-weekly tech demos.
- **Boosted software testing speed by 47%** using **Jest** framework by refining existing tests and expanded test coverage.

Live Coin Watch

Delaware, USA

Freelance Software Developer

Dec. 2021 – Jan. 2022

- Optimized data extraction by engineering **JavaScript** scripts for seamless integration into the **ETL pipeline**, enhancing external API interactions and **MongoDB** storage solutions.
- Developed a **Python** wrapper with **14,000+ downloads** on Pypi that covers all company's API endpoints, and automated the pip package testing and deployment using **GitHub Actions**.
- Revamped the company's API documentation by adding support for **6** programming languages, covering all endpoints.

DUC APP

Toronto, Canada

Software Developer Intern

Jun. 2021 – Aug. 2021

- Increased external partners **API usage by 75%** by redesigning the company's **REST API** with **JavaScript** and **Node.js**.
- Authored the company's API documentation using **Postman** and **Slate**, enhancing communication with partners.

Projects

SeatScout

- Deployed a **Next.js** web app with integrated **Stripe payments**, **Google authentication** and live SMS/Email notifications.
- Built a **REST API** and multiple web scrapers for university websites, supporting **CRUD** operations on **10,000+ courses** across multiple institutions, using **TypeScript**, **Express.js** and a **PostgreSQL** database.

Machine Learning Game Predictor

- Trained a Neural Network and a GBOOST model with SKlearn and Keras, achieving **90% accuracy** in predicting outcomes.
- Created a dataset with **16,000+ samples** using **Python** by scraping and extracting data from different websites and APIs.