Rene Gonzalez

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Education

University of Waterloo	*Waterloo, Canada*
Bachelor of Honours Computer Science Candidate	*Graduating April 2026*

Technical Skills

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