

Rene Gonzalez

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Education

University of Waterloo

Graduating April. 2026

Bachelor of Computer Science Candidate, Honours, Co-op

- Algorithms, Data Structures, Object Oriented Programming, Database Management, Compilers

Technical Skills

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

Frameworks and Tools: PostgreSQL, MongoDB, Jest, React.js, Next.js, Express.js, Git, FastAPI, Web3, Azure Web Services

Experience

Workplace Safety and Insurance Board (WSIB)

Waterloo, CA

Full-Stack Developer Intern

Jan. 2024 - Apr. 2024

- Led 7 engineers to develop an end-to-end GenAI application to streamline document simplification for **4,000+ WSIB employees**, using **React.js**, **Flask**, **GPT-4**, and **Azure Web Services**.
- Enabled deeper customer experience insights by creating a call analysis tool with **OpenAI's Whisper** and **Azure AI**.
- Facilitated LLM benchmarking by designing a model evaluation framework with **Python** and Meta's **FAISS**.
- Developed a physiotherapy assessment framework using **OpenCV**, **MediaPipe** and **Python** to enhance patient performance evaluation through motion pattern analysis.

Toolbx

Toronto, CA

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%** on the Web and REST API by enhancing and optimizing **PostgreSQL** queries.
- Showcased **25+ features** I developed to company stakeholders in daily syncs and bi-weekly tech demos.
- Boosted software testing speed by 47%** using Jest by refining existing tests and expanded test coverage.
- Enhanced organizational productivity by implementing pagination and advanced filtering on the Admin dashboard.

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 **13,000+ downloads** on Pypi that covers all the company's API endpoints, and automated the pip package testing and deployment using **GitHub Actions**.
- Enhanced the company's API documentation by adding 6 programming languages covering all endpoints.

DUC APP

Toronto, CA

Software Developer Intern

Jun. 2021 - Aug. 2021

- Increased by 75% external API usage** 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

- Developed a **REST API** and multiple web scrappers for university websites, supporting **CRUD** operations on **10k+** courses across multiple institutions, using **TypeScript**, **Express.js** and a **PostgreSQL** database.
- Integrated **Stripe** payments and **Google authentication**, allowing seamless and secure experience, using **Next.js**.
- Implemented an SMS and email notification feature using **Twilio's API**, **Sendgrid** and **Typescript**.