

# Rene Gonzalez

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## Education

### University of Waterloo

Graduating April 2026

Bachelor of Computer Science Candidate, Honours, Co-op

## 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 6 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**.
- Transformed patient performance evaluation through motion pattern analysis by developing a physiotherapy assessment framework using **OpenCV**, **MediaPipe** and **Python**.

### 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 workers productivity by implementing pagination and advanced filtering in 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**.
- Revamped the company's API documentation by adding 6 new programming languages, covering all endpoints.

### DUC APP

Toronto, CA

Software Developer Intern

Jun. 2021 – Aug. 2021

- **Increased external 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

- Built a **REST API** and multiple web scrapers 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**.