

# Rene Gonzalez

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## EDUCATION

### University of Waterloo

Sep. 2022 – Present

Bachelor of Computer Science Candidate, Honours, Co-op

- **Major GPA: 3.9**
- **\$10,000** - International Student Entrance Scholarship: **1 of 20** recipients school-wide

## 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

## EXPERIENCE

### Software Engineer Intern

Toronto, ON, CA

Toolbx

May. 2023 - Aug. 2023

- Developed a highly efficient RPA system, leveraging **TypeScript** and **Google Cloud Vision**, to automate the processing of thousands of quotes, integrating clients's legacy software and the company's modern system
- Enhanced and optimized **PostgreSQL** queries to accommodate new functionalities in the Web and REST API, significantly **improving performance by up to 25%**
- Effectively communicated the value of **25+ features** I developed using **TypeScript**, **React**, **Cloud Vision API** and **GraphQL**, during daily synchronization meetings and bi-weekly company-wide Tech Demos
- Utilized **Jest** to meticulously create tests for every file, function, or feature while updating existing test cases, resulting in a substantial 35% increase in testing speed and accuracy, significantly elevating software quality
- Implemented pagination and advanced filtering options on the Admin page, significantly boosting productivity for all teams across the organization

### Junior Developer Freelancer

Newark, DE, USA (Remote)

Live Coin Watch

Dec. 2021 – Jan. 2022

- Created scripts using **Javascript** and **Node.js** to extract data from various cryptocurrency exchanges' APIs and integrated it into the existing **ETL pipeline** storing the data in a **MongoDB** database
- Designed and deployed a **Python** wrapper with **10k+ 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

### Software Developer Intern

Remote

DUC APP

Jun. 2021 – Aug. 2021

- Authored the company's API documentation using **Postman** and **Slate**, enhancing communication with partners
- Collaborated with a team of two engineers to redesign the company's **REST API** using **JavaScript**, resulting in a **75% increase** in third-party company usage

## 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 payment system and Google login, allowing seamless and secure experience, using **Next.js**
- Implemented an SMS and email notification feature that alerts students of available course spots, using Twilio's API, Sendgrid and Typescript, enhancing overall user experience

### ML Game Predictor

- Created a data-set with **16k+ samples** using **Python** by web scraping data from three different platforms
- Implemented and trained a Neural Network with **Keras** and a GBOOST with **SKlearn** to predict the match's outcome with a final result of **90% accuracy**
- Used **Streamlit** to showcase and test the algorithms with real matches

### Equalis

- Developed a smart contract using **Solidity** that enables the creation and execution of multiple elections
- Deployed the smart contract to **Ganache** and **Rinkeby** testnets using **Web3.py**
- Designed an API for the smart contract that communicates with the front-end using Python