

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
- **\$2,000** - President's Scholarship of Distinction: Awarded for a 95%+ admission average

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 by adding 6 programming languages to its documentation

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

Telegram Crypto Bot

- Launched and engineered a Telegram bot that gives real-time information about the crypto market, using **Python**, Telegram's API and a Python wrapper, gathering **200+ users** within the first week after the launch