Rene Gonzalez

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EDUCATION

University of Waterloo *Graduating Dec. 2025*
Bachelor of Computer Science Candidate, Honours, Co-op
- **$10,000** - International Student Entrance Scholarship: **1 of 20** recipients school-wide
- **Relevant Coursework:** OOP Software Development C++, Sequential Programs, Data Structures & Algorithms

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.js**, **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