

# Arielle Ramgoolie

Port of Spain, Trinidad and Tobago | [arielleramgoolie27@gmail.com](mailto:arielleramgoolie27@gmail.com) | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## TECHNICAL SKILLS

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**Languages** : C#, JavaScript, Python, Typescript, HTML5, CSS, Linux, C, Java

**Frameworks** : .NET, Vue, React, Express, Node.js, Dojo

**Databases/Tools:** SQL, MongoDB, Neo4j, Docker, Git, GitActions, Insomnia, Jira, Shortcut, Celery, Figma

**Course Works** : Data Structures and Algorithms, Systems Programming, Intro. to Databases

## EXPERIENCE

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### Associate Developer

Ministry Of Land and Legal Affairs Valuations Division

Aug 2025 – Present

Port-of-Spain, Trinidad and Tobago

- Maintain current Valuations Information System through regular web development maintenance using **C#** and **ASP.NET**, ensuring system stability and resolving critical bugs that improved user experience for **150+ Valuations staff**
- Ensuring proper database backups and internal process functionality, managing GIS system integration with VIS through API calls that facilitate seamless data exchange between systems, maintaining **system reliability**
- Currently developing the Objections Module for the Valuation Division using **C#** and **SQL Server**, enabling streamlined objection response processing that will allow the processing of **100% of objections** with automated workflow management

### Software Developer

Dayforce

Sept 2024 – April 2025

Toronto, Canada

- Contributed to full-stack feature development for Dayforce monolith through the use of **.NET Framework, C#, React, Typescript** and **Dojo** while supporting its decomposition into microservices, delivering scalable solutions.
- Diagnosed and resolved high-priority iOS Safari bug where links failed to open, enhancing **cross-browser compatibility** and ensuring a seamless user experience for over 50,000 active users.
- Spearheaded the conversion 15 automation tests from **FitNesse** to **SpecFlow**, centralizing the team's test suite and improving maintainability
- Proactively monitored 1000+ nightly **automation tests** over 3 week sprints, investigating failures and conducting sign offs before releases, improving test reliability and deployment confidence.
- Effectively communicated with external teams to perform thorough comprehensive testing for crucial update to the core system, affecting 7 classes, and successfully mitigated potential regressions

### Software Developer

Dash Hudson

Jan 2024 – April 2024

Toronto, Canada

- Integrated 40+ features for SaaS enterprise software within 4 months utilizing **Javascript, Vue.js, Python**, and **Jest**, solving the most tickets for the AI integration epic within my team.
- Conducted daily stand-up and bi-weekly retrospective meetings for 2 months as **master of ceremonies**.
- Developed **REST API** endpoints and tested them meticulously with **Insomnia** and **PyTest**, allowing secure and seamless data flow.
- Optimized concurrency and overall performance of background jobs by utilizing **SQLAlchemy** and **Celery**.
- Monitored **Cypress** end-to-end tests daily, ensuring system reliability and early bug detection.
- Engineered new front-end components and integrated with feature development initiatives, while ensuring reliability through comprehensive tests with **Jest**

### Open Source Developer

LangChain

Oct 2023 – Dec 2023

Remote

- Developed a Discord tool for LangChain by leveraging **Discord.js** and **Typescript**, enabling users to utilize Discord's capabilities.
- Communicated with code owners to incorporate feedback and successfully release the solution within weeks

## Developer Intern

Ministry of Children Community and Social Services

Jan 2022 – Aug 2022

Toronto, Canada

- Automated the generation of 200+ customized forms using **Python**, significantly reducing the manual workload of clients
- Leveraged **machine learning** to conduct early risk assessment based on user-provided project descriptions, reducing analysis time from hours to seconds.

## PROJECTS

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### Calypso (Full Stack Developer)

Typescript, React, MongoDB, Neo4j, Docker, Git Actions

- Developed secure login and registration functionality using **MongoDB**, advanced **password hashing** techniques, and **cookies** to redirect users upon successful login
- Built a **CI/CD pipeline**, automating the deployment and testing process, ensuring seamless updates, and reducing testing time by over 2 hours.

### MyBnB (Backend Developer)

Java, SQL, Github

- Engineered a **relational schema**, designed to handle Airbnb functionalities, and minimize redundancies
- Pioneered an **advanced search algorithm** by building complex SQL queries to enhance search configurability.

### Storefront (Full Stack Developer)

Agile, Java, XML, Android Studio, Firebase

- Advanced **XML** skills within a week to create responsive user interfaces such as register, login and shopping cart feature
- Implemented Model View Presenter model to allow 100% testing coverage using **Mockito** and **JUnit** testing
- Organized data into a relational database, to safely store data of 50+ users

### Graffiti

C Programming

- Developed a social media link platform, allowing users to perform 3 main functions: add friends, remove friends and follow brands
- Engineered an efficient algorithm to suggest friends to users, based on the degree of connections using **path finding algorithms**

### TwitterVerse

Python

- Developed a Python script that cloned Twitter's search engine to allow users to perform efficient queries
- Implemented a feature that allowed users to search by different fields such as Name, and Location to allow a more efficient search

## EDUCATION

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### University of Toronto

Honors Bachelor of Science in Computer Science With Distinction - Software Engineering Stream

Toronto, ON, Canada

Sept 2020 – Aug 2024