Arielle Ramgoolie

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TECHNICAL SKILLS

Languages	:	C, Java, Python, JavaScript, Typescript, HTML5, CSS, Linux
Frameworks	:	React.js, Express.js, Node.js
Databases/Tools	:	MongoDB, SQL, Neo4j, Docker, Git, GitActions, Eclipse, Postman, JIRA, VSCode
Course Works	:	Design and Analysis of Data Structures, Systems Programming, Intro to Databases, Intro to Software Engineering

EXPERIENCE

Automation Developer May 2022 – August 2022
Ministry of Children Community and Social Services *Toronto, Canada*

- Developed **Python script** to automatically generate 200+ customized forms to reduce email communication by 58%
- Pioneered Review Engine which conducted early risk assessment using user's description of a project using **machine learning** and **cosine similarity**, reducing analysis time by 60%

Digital Analyst January 2022 – April 2022
Ministry of Children Community and Social Services *Toronto, Canada*

- Constructed a **Power BI dashboard** linked to a dynamic Excel to provide directors with a comprehensive view of the branch's current and upcoming projects, resulting in streamlined project descriptions at meetings
- Collaborated with senior architects to conduct **A3 problem solving** methodology to effectively resolve complex issues and optimize decision-making process

PROJECTS

<u>Calypso (Full Stack Developer)</u> Typescript, React, MongoDB, Neo4j, Docker, Git Actions

- Implemented an engaging **animated landing page** and ensured a consistent UI across all pages
- Developed login and registration functionality using MongoDB, employed advanced **password hashing** techniques to enhance security, and used **cookies** to redirect users upon successful login
- Built **CI/CD pipeline** automating the deployment and testing process, ensuring seamless updates which lead to a 78% reduction in testing time
- Collaborated on **recommendation algorithm** providing art and music suggestions based on users' previous purchases and resulted in a 49% rise in user discovery and exploration

<u>MyBnB (Backend Developer)</u> Java, SQL, Github

- Engineered relational schema, designed to handle Airbnb functionalities and minimize redundancies
- Pioneered an **advanced search algorithm** that allowed renters to perform precise location-based searches along with filtering by price range, available dates, and sorting preferences
- Engineered a host toolkit that included a **price recommendation** feature based on city and property type, along with intelligent **suggestions for price increases** if adding specific amenities when creating listing

<u>Storefront (Full Stack Developer)</u> 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

EDUCATION

University of Toronto Toronto, ON, Canada
Candidate, Bachelor of Science in Computer Science, Software Engineering Stream *Sept 2020 – August 2024*