Arrun Patkunasingam

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Experience

Software QA Engineer — May 2020 – Dec. 2020
FGF Brands Inc. — Toronto, ON
- Implemented **automated functional and performance testing** using **Selenium** and **JMeter** reducing regression testing time by 80% resulting in faster releases to production
- Developed a modularized **Java based Selenium testing framework** to improve code reusability for automated testing of future applications
- Performed **manual regression** and **black box testing** resulting in a 90% increase in bug discoveries. Partnered with internal teams to analyze and resolve these defects while using the **Azure DevOps** environment to track changes.

DevOps Engineer — Jan. 2020 – Apr. 2020
Royal Bank of Canada (RBC) — Toronto, ON
- Developed a program in **JavaScript** which leveraged Jira **REST APIs** to automate providing clients with solutions to their Jira tickets. Resulted in 40% more closed tickets per week.
- Provided support for tools used by the Operations/Testing teams and **documented common solutions** for these issues using **Confluence** which led to a 30% decrease in Jira tickets logged
- Worked on an **agile** release train to provide clients with scripts that helped automate redundant tasks for the tools they used

Projects

GroupGram | JavaScript, React.js, Node.js, Express.js, MongoDB
- Developing a **full-stack web application** which allows users to create groups with their friends, create albums for these groups and store pictures from the events they experience together
- Responsible for **software architecture of both front-end and back-end** of the website. Created and **managing a team** to collaboratively develop the application using the **MERN stack**.
- Built wireframe front-end using **Figma** and converted to **React** components for fast, scalable front-end development

Bug Logger (bugreporterapp.herokuapp.com) | Python, Django, PostgreSQL, Heroku, AWS
- Developed a **full-stack web application** which teams can use to log bugs for their projects and update the bug's status as it's being handled
- Utilized Google Charts to give users an easy to understand visual of the statuses of their bugs within their projects
- Deployed using **Heroku** and **AWS S3** for image hosting and scalability

Image Repo (imagerepoapp.herokuapp.com) | Python, Django, PostgreSQL, Google Cloud Vision API, Heroku, AWS
- **Full-stack web application** which allows users to upload or download images from a secure **AWS S3 bucket**
- Users can include tags to aid with image search but will also be provided 'suggested tags' using object detection through **Google Cloud's Vision API**

Dictionary Translator | Python, Tkinter, Google Translate API
- Used **Tkinter** and a dictionary set to make a dictionary application which can return a definition, provide spelling suggestions, or provide a translation to a definition using the **Google Translate API**

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS, C, C++, SQL
Databases: MongoDB, PostgreSQL
Frameworks: React.js, Node.js, Express.js, Django, Selenium, JUnit
Developer Tools: Git, Visual Studio Code, Eclipse, AWS, Azure DevOps Environment
Libraries: OpenCV, pandas, NumPy, Matplotlib, scikit-learn

Education

McMaster University — Sept. 2017 – Apr. 2022
Bachelor of Engineering - Software Engineering Co-Op (3rd Year) — Hamilton, ON
- **Courses:** Data Structures & Algorithms, Software Practice & Experience, Databases, Operating Systems
- **Extra-curricular:** McMaster Mars Rover Team - Vision Team Developer, McMaster AI Society - General Member