Sayon Sivakumaran

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EDUCATION

Bachelor of Science, Computer Science & Statistics
University of Toronto, Toronto, ON

- Specialist Programs in Software Engineering & Data Science, CGPA: 3.81/4.00
- **Relevant Courses**: Software Design, Data Structure Analysis, Systems Programming

WORK EXPERIENCE

Full Stack Developer Intern August 2019 – April 2020
Leonardo Worldwide Corporation, Toronto ON
Built a modern content management application used in the hospitality industry

- Integrated various microservices and wrote queries in the API Gateway, using Express.js, gRPC, and GraphQL
- Utilized Flyway scripts and Spring Boot to aid foundational work for a data migration tool to migrate customers from a legacy system to a modern platform
- Expanded upon highly modular, component-based UI framework using Marko.js and SASS
- Formulated concise, randomized test cases and mock data generators for front-end end and back-end services with Jest and Groovy

PROJECTS

JShell June 2019 – August 2019
Unix-like CLI implemented with Java and JUnit, using Scrum methodologies

- Architected object-oriented design strategies as Scrum master, focusing on abstraction, re-usability, and limiting boilerplate code
- Implemented functionality and wrote automated tests for input parsing, output redirection, and various commands using ArrayLists, Stacks, and Hashtables

Personal Website April 2020 – May 2020
Online portfolio built using React.js

- Employed React-Bootstrap framework and Yarn package manager to organize modular, stylized, re-usable UI components

Sudoku May 2020
Android application for Sudoku written using Kotlin

- Designed an efficient game-generating algorithm where over 100 million different boards with unique solutions can be randomly generated

Jet Fighters April 2018 – June 2018
Vertical shooter arcade game implemented with Java

- Applied inheritance and polymorphisms towards the design and implementation of enemy objects, movements, and health

Research Project March 2019 – April 2019
Statistical report using R to determine if a university education is worth the investment

- Examined social and financial factors by re-arranging and plotting data to create various statistical models

TECHNICAL SKILLS

Languages: Java, JavaScript, C, HTML, CSS, Python, Kotlin, SQL, Groovy, R
Frameworks: React.js, Marko.js, Spring Boot, gRPC, Bootstrap
Software/Tools: AWS, Git, Linux, Jira, Maven, LaTeX