KUSHAGRA THAKUR

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EDUCATION

YORK UNIVERSITY – TORONTO, ON *Expected Graduation: Feb 2024*
Lassonde School of Engineering, BSc Hon. Computer Science.

Relevant Courses: Data Structures and Algorithms, App Development, Web Development, Database Systems, Statistics and Probability, Discrete Mathematics, Calculus, Computer Architecture & Theory of Computation, Automation & Web-Scraping, Introduction to AI & Computer Vision

SKILLS

Technical: Python, C#, C, GoLang, Java, Flask, HTML/CSS, JavaScript & SQL, Selenium, Git, Docker, Azure

WORK EXPERIENCE

DATA ENGINEER: AMPLIFY *May 2023 – Aug 2023*
Royal Bank of Canada (RBC), Toronto
- Led 4 member team to create AIDA, a secure LLM based application for WealthManagement Advisors.
- Developed data ingestion scripts using Python to fine tune model over 250+ RBC documents for advisors.
- Collaborated with team to create a Full Stack application using Node.Js and Angular.
- Presented business case to 2 executive sponsors supporting development of the application.

SOFTWARE ENGINEER INTERN *Jan 2022 – Aug 2022*
Royal Bank of Canada (RBC), Toronto
- Programmed an end-to-end test suite (over 80+ tests) for RBC Invest-Ease application using **Selenium Java**, deployed the suite to the Jenkins pipeline which led to faster detection of errors and increased mitigation rate by 38%.
- Spearheaded the research process to develop the version control of 2 projects through **Git** with 20+ CRs and facilitated the migration process of deprecated services to reduce significant vulnerabilities by 22%.
- Optimized and restructured RBC Direct-Investing application's backend using **Java**, discovered 18 bugs and wrote SQL scripts for various account types to fetch metrics and curate data patterns and insights.

SOFTWARE DEVELOPMENT RESEARCHER *Sep 2021 – Jan 2022*
Lassonde school of Engineering, York University (Toronto)
- Collaborated with a frontend developer to work on the backend of a sensor fusion software that improved GNSS positioning by 34%. Tested software and fixed bugs, and documented processes to increase efficiency by 9%.
- Implemented **Python** scripts for testing **15** performance metrics that reduced number of bugs reported by 11%.
- Executed CI/CD development through **7 GitHub Actions** to setup smooth developer friendly workflows.
- Presented software options for **version control** to 30-member team.

SOFTWARE DEVELOPER INTERN *May 2021 – Aug 2021*
Rocscience, Toronto
- Automated the renaming and uploading of 2000 images using **Selenium** and **Python**, leading to 30% decrease in setup time.
- **Dockerized** the Rocscience support website with 130 users to **Craft Nitro** with **Docker** and **Composer**.
- Reduced storage redundancy by **automation** of relinking of 100+ reused files with **Java**, decreasing export time by 15%.
- **Automated** 20+ tasks, increasing efficiency of website updates by 20% using **Python.**

PERSONAL PROJECTS

Digital- U | HACKATHON TEAM PROJECT | React
- Automated WhatsApp messaging bot which browses through your message logs responding to 50+ events.
- Powered by **Tensorflow** and **Puppeteer**. Works on 1000+ exported messages from users as the training set.
- **OCR** API used for connecting to WhatsApp Web. **ML** algorithm made using **Numpy**. Front end created with **React**.
- Guided 4-member team for Hack the Valley 5, collaborated using **git**.

ONLINE PORTFOLIO AND BLOG: | Jekyll, JavaScript | Portfolio link
- Hosted a **Jekyll** based portfolio. Connected with **FormSpree** API for messages. **SSL** hosted on **Github**.
- Features an accessible blog about upcoming milestones. Written in **HTML** and **Javascript,** styled with **CSS**.