Muhammad **Alvi**

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Experience

Amazon   *Toronto, ON*
Software Engineer   *Jan 2022 – Present*
- Introduced a time and byte based cutoff for long running tasks causing duplicate computation, reducing expenses by 66%
- Built an autonomous content sampler that gives customer's probability of sensitive data discovery per file, increasing job creation by 13%
- Implemented a security testing worflow to CI/CD pipeline, maintaining a rigorous standard of authorization and authentication verification
- Designed an allow listing service that allows customers to provide custom regex to whitelist from sensitive data detections

Amazon   *Vancouver, BC*
Software Engineer   *May 2021 – Aug 2021*
- Sole responsibility for expanding Macie, a machine learning AWS Service that classifies sensitive information in text-based files to also include JPEG and PNG files
- Utilizing MMOCR, a deep learning OCR library to facilitate extraction and classification of text maintaining an F-Score requirement of 0.9
- Writing a design document outlining business opportunity, offering a prospective project architecture, and detailing the quantitative success criteria
- Providing a complete test suite to enable integration into Amazon Macie and sequentially deploy products into production
- Successfully maintaining a performance requirement of 1.4 million tasks to classify images per hour

Scotiabank   *Toronto, ON*
Software Engineer   *Sep 2019 – Dec 2020*
- Designed a web bases test suite for 3 test environments using React and Spring, leading to 21% faster testing
- Optimized API to increase time-to-first-byte by 6% ⊠ Developed a simulator for testing and monitoring multiple API's providing 78% code coverage
- Automated reformatting of test data using Python scripts ⊠ Deployed a Java-based international money transfer application
- Built a dashboard to track API metrics, invoke alarms, and provide insight to business owners for future improvements.

Education

University of Guelph   *Guelph, ON*
BComp in Computer Science   *Sep 2017 – May 2022*

Projects

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