

# Alexander Yoon

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## EXPERIENCE

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### Amazon

May 2025 – Aug. 2025

*Software Development Engineer Intern*

*Vancouver, BC*

- Developed the Overnight Upload feature for the Amazon Photos app, enabling background uploads during low-usage hours; helped increase users reaching the 100% complete backup state by an estimated 15%, driving higher engagement and long-term retention.
- Engineered both frontend UI and backend service logic in Kotlin with AWS integration, optimizing large-scale photo upload reliability.
- Built a scheduled notification system with WorkManager, increased user awareness and activation of the backup feature, resulting in higher feature adoption.
- Designed and monitored metrics dashboards/alarms to track feature success and health; improved mean time to detect (MTTD) failures by 30%.
- Collaborated within an Agile Scrum team through sprint planning, daily standups, and code reviews, contributing production-ready code to a massive, complex Android codebase.

### CIBC

Sep. 2024 – Apr. 2025

*Software/Application Developer Intern – Salesforce ECRM*

*Toronto, ON*

- Developed and maintained data pipelines and workflows with Azure Data Factory and Databricks, improving automation, reliability, and scalability of enterprise data processes.
- Built and enhanced Python applications and RESTful APIs to streamline internal processes, automate reporting, and support data-driven business insights.
- Leveraged NumPy, Pandas, and Databricks to process and visualize large datasets for decision-making; collaborated with stakeholders to align solutions with business goals.
- Contributed to testing, integration, and deployment using tools such as SOAtest, Git, and Bitbucket, ensuring code quality and system stability.

## PROJECTS

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### VANKLCommApp: Secure Chat Android Application | *Java, Android Studio, Firebase, AES Encryption*

- Developed a secure chat application for company-wide communication, ensuring confidentiality and integrity of messages.
- Implemented a Key Distribution Centre (KDC) server, mediated authentication protocol, and AES encryption to establish secure channels.
- Built features including Contacts for management and Broadcast for company-wide messaging.
- Utilized MVC1 architecture for modular development and Firebase for database management.

### Natural Language Processing (NLP) Analysis Tool | *Python, NLTK, SpaCy*

- Created an NLP-based analysis tool to process unstructured data and extract actionable insights.
- Leveraged Python libraries such as NLTK and SpaCy to perform text classification and sentiment analysis.
- Implemented preprocessing techniques such as tokenization, stop-word removal, and stemming to enhance model accuracy.

## EDUCATION

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### Bachelor of Software Engineering

Sep. 2021 – Present

*McMaster University*

*Hamilton, ON*

## TECHNICAL SKILLS

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**Languages:** Python, Java, Kotlin, SQL, C, C++, JavaScript, HTML, CSS

**Frameworks:** Spring Boot, REST APIs, Microservices, Django, Flask, React, Redux

**Developer Tools:** Git, JIRA, AWS, Bitbucket, Azure, Databricks, Confluence

**Libraries:** Pandas, NumPy, Matplotlib, SciPy, Dash