

# Alexander Yoon

## Software Engineering

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### PROFILES

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### OBJECTIVE

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Aspiring 3rd-year software engineering student at passionate about AI/ML and software development. Experienced in Python application development, data analysis, and model validation with a focus on creating innovative solutions.

### WORK EXPERIENCE

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#### **Software/Application Developer Co-Op – Salesforce ECRM Data – CIBC – Toronto, ON – October 2024 – Present**

- Developed and maintained robust data pipelines and workflows using Azure Data Factory and Databricks, adhering to SDLC and PMLC methodologies.
- Designed and developed Python apps for automating data pipelines and implementing analysis tools.
- Used libraries like NumPy, Pandas, etc. to process and visualize large datasets for decision-making.
- Collaborated with stakeholders to gather requirements and develop solutions aligning with goals.
- Maintained detailed project documentation, including testing and verification protocols, ensuring readiness for inspection.
- Contributed to system integration and deployment using version control systems such as Git and Bitbucket.

#### **Software/Application Developer Co-Op – Salesforce ECRM – CIBC – Toronto, ON – September 2024 – October 2024**

- Enhanced Python applications to streamline internal processes, ensuring high efficiency and accuracy.
- Conducted unit and system testing with SOAtest and Virtualize identify defects in the application code.
- Developed data-driven solutions for reporting and statistical testing, improving business insights.
- Utilized Python frameworks to design and deploy web applications supporting operational needs.
- Built and optimized RESTful APIs to improve system functionality and enhance client interactions.

### PROFESSIONAL EXPERIENCE

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#### **VANKLCommApp: Secure Chat Android Application Development: Company Communication Revolutionized**

- Developed of 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 communication channels.
- Features including Contacts for contact management and Broadcast for company-wide messaging.
- Utilized MVC1 architecture for modular development and Firebase for database management.
- Successfully delivered a robust and user-friendly Android application using Android Studio.

#### **Natural Language Processing (NLP) Analysis Tool**

- Created an NLP-based analysis tool to process unstructured data, extracting 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 – McMaster University – September 2021 – Present**

### SKILLS

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Python, Java, SQL, C, C++, JavaScript, Spring Boot, REST APIs, Microservices, NumPy, Pandas, SciPy, Matplotlib, Dash, Django, Flask, React, Redux, Git, Bitbucket, Azure, Databricks, JIRA, Confluence, Statistical Testing, Data Visualization, Model Validation, Git, RAG, Problem Solving, Critical Thinking, Team Collaboration, Time Management