# **JAMES CHOI**

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### **EDUCATION:**

Queen's University

Bachelor of Computing - Software Design Specialization

May 2027

- Coursework: Data Structures, Algorithms, Machine Learning, Software Architecture, Operating Systems
- GPA: 3.7

## **EXPERIENCE:**

Scotiabank

Data Engineer Intern

May 2025 - present

Toronto, ON

- Wrote 10+ reusable Python scripts for data validation, job orchestration, API ingestion, and Airflow operators, improving pipeline reliability and reducing manual work.
- Maintained dbt models in BigQuery to transform and clean raw data for internal reporting.
- Contributed to a Retrieval-Augmented Generation (RAG) proof of concept by preprocessing documents and embedding metadata into a vector store.

# Azure Integration Developer

May 2023 - April 2024

FGF Brands

Toronto, ON

- Created and deployed multiple custom Logic Apps workflows to automate business processes, orchestrate complex workflows, and integrate applications between Azure and on-premise.
- Designed, developed and implemented over 20 BizTalk maps using XSL, JSON, and C# in Visual Studio to enable data exchange between EDI and XML formats.
- Developed backend services and transformation logic using Python, SQL, and Azure Functions, enabling scalable ingestion of structured and semi-structured data.

ML Specialist Intern

June 2021 - October 2021

Toronto, ON

ZeroOne AI

- Participated in Korean Telecommunication Corporation (KT) AI project to develop and deploy anomaly detection models using LSTM, CNN, and GAN architectures in Python and TensorFlow, achieving 95% accuracy on test datasets and enabling proactive identification of irregularities in data.
- Developed Python scripts for data preprocessing and feature engineering, ensuring clean input for machine learning models.
- Implemented data visualization techniques using Matplotlib and Seaborn to present model insights.

### **PROJECTS:**

Paper2Video | Python, Airflow, Docker

*Dec 2024 - Feb 2025* 

- Built a Python pipeline that ingests academic PDFs with PyPDF2 and spaCy, then feeds cleaned text to GPT-4, automatically generating concise Korean scripts from research papers.
- Developed MoviePy routines to programmatically assemble text slides, TTS voice-overs, and visual assets, and orchestrated the end-to-end workflow using Airflow DAGs with XComs, structured logging, and failure alerts.
- Containerized each component in Docker and deployed on GCP Cloud Run with Pub/Sub triggers, auto-scaling, and health checks—consistently delivering a finished video in under two minutes.

### ACHIEVEMENTS/CERTIFICATES

Dean's List, School of Computing, Queen's University

Fall 2024 - Winter 2025

Microsoft Certified: Azure Fundamentals (AZ-900)

Jan 2025

Microsoft Certified: Azure Solutions Architect Expert (AZ-305)

#### **SKILLS**

Languages: Python, Java, C#, SQL, JavaScript, HTML/CSS

Frameworks & Platforms: Azure Logic Apps, Data Factory, Functions, BizTalk, Apache Airflow, Docker, dbt, GCP BigQuery, Dataproc, Cloud Composer

Developer Tools: Git, VS Code, Visual Studio, Azure DevOps, JIRA

Libraries & SDKs: TensorFlow, pandas, NumPy, scikit-learn, OpenAI SDK, matplotlib