

# JAMES CHOI

---

647-978-8220 | jinhchoi128@gmail.com | linkedin.com/in/jameschoi01/ | github.com/jinhchoii

---

## EDUCATION:

Queen's University - Bachelor of Computing - Software Design Specialization April 2027

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

## EXPERIENCE:

**Data Engineer Intern** May 2025 - present  
*Scotiabank* Toronto, ON

- Developed 10+ reusable Python scripts for data validation and duplicate removal on GCP, querying BigQuery tables to improve pipeline reliability and cut manual work by 40%.
- Built and deployed a Cloud Composer DAG on GCP to orchestrate Python validation scripts, run dbt test and published lineage/docs to GCS—providing a end-to-end workflow that accelerated stakeholder onboarding by 50%.

**Software Engineer Intern** May 2023 - April 2024  
*FGF Brands* Toronto, ON

- Architected and implemented scalable Python- and SQL-based backend microservices using Azure Logic Apps, Azure Functions and Cosmos DB to ingest, parse, and normalize master-data feeds (JSON, XML, EDI) from 20+ EDI partners, 10+ direct API customers, and 5+ 3PL partners—proprocessing over 1500 records daily and reducing downstream data errors by 30%.
- Engineered data-transformation pipelines in C# (.NET) and XSLT—producing 20+ EDI/XML maps,

**Data Scientist Intern** June 2021 - October 2021  
*ZeroOne AI* Toronto, ON

- Developed and deployed LSTM-, CNN-, and GAN-based anomaly-detection models for KT Corporation using Python and TensorFlow—achieving 95% test accuracy and enabling proactive identification of data irregularities.
- Developed Python scripts for data preprocessing—cleaning and normalizing ~500K records/day and creating 15 feature routines—to improve data quality by 25% and speed up model training.
- Delivered 5+ Matplotlib/Seaborn dashboards, visualizing anomaly trends to help stakeholders triage issues 50% faster.

## PROJECTS:

**Paper2Video** | *Python, GPT-4* Dec 2024 - Feb 2025

- Built a Python pipeline to transform academic PDFs into 60-second Korean YouTube Shorts: extracted text with Grobid & PyMuPDF; summarized, translated, and scripted via GPT-4; created avatars with Midjourney & D-ID Studio; and assembled videos using MoviePy.
- Automated the end-to-end workflow with Docker and cron jobs, integrating PyPDF2 for PDF handling, GPT-4 for NLP, and ffmpeg/MoviePy for media generation.

**automate-gcs-bq** | *Python, JavaScript, GCS* May 2025 - June 2025

- Developed Python Cloud Functions triggered by GCS uploads to dynamically create BigQuery tables (via schema JSON and UDF files) and kick off Dataflow jobs—automating end-to-end CSV ingestion with zero manual intervention.
- Orchestrated and versioned the workflow using Cloud Storage, Cloud Functions, Dataflow, BigQuery, and Cloud Run, managing all code artifacts (Python scripts, UDFs, schema definitions) in GitHub for reproducible, scalable deployments.

## ACHIEVEMENTS/CERTIFICATES

Dean's List, School of Computing, Queen's University Fall 2024 - Winter 2025

Microsoft Certified: Azure Fundamentals (AZ-900) Jan 2025

AWS Certified: Cloud Practitioner (CLF-C02) July 2025

## 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, Confluence, Docker, Kubernetes

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