JAMES CHOI

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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

FGF Brands

ZeroOne AI

EXPERIENCE:

Data Engineer Intern

May 2025 - present

Scotiabank Toronto, ON

- Developed 10+ reusable Python scripts for data validation and duplicate removal on GCS, querying BigQuery tables to improve pipeline reliability and cut reducing manual work by 10 hours/week.
- Built and deployed a Cloud Composer DAG on GCP to orchestrate Python validation scripts, run dbt test and published lineage/docs to Confluence, providing an end-to-end workflow accelerating stakeholder onboarding by 70%. May 2023 - April 2024

Software Engineer Intern

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, processing over 1500+ records daily and reducing downstream data errors by 30%.
- Engineered data-transformation pipelines in C# (.NET) and XSLT, producing 20+ EDI/XML mappings, complete with unit tests and CI/CD via Azure DevOps.

Machine Learning Engineer Intern

June 2021 - October 2021

Toronto, ON

- Developed and deployed LSTM-, CNN-, and GAN-based anomaly-detection models for KT Corporation using Python/TensorFlow, and ML algorithms: XGBoost, LightGBM, CatBoost, achieving 95% test accuracy.
- Developed Python scripts for data preprocessing—cleaning and normalizing ~50K records for testing and creating 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:

DataDream | React JS, Python, AWS (Bedrock, Lambda, S3, DynamoDB), Streamlit

May 2025 - Jul 2025

- Built an AI-powered synthetic data platform for the GenAI Hackathon by Impetus & AWS using React, FastAPI, and AWS services, achieving 85% data quality similarity and processing 500+ records per minute.
- Architected a serverless data generation system using AWS Lambda, S3, and DynamoDB, implementing real-time quality monitoring with 88% correlation maintenance and integrating AWS Bedrock for AI-powered synthetic data generation. automate-gcs-bq | Python, JavaScript, GCP Jan 2025 - March 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 code artifacts (Python scripts, UDFs, schema definitions) in GitHub for reproducible, scalable deployments.

ACHIEVEMENTS/CERTIFICATES

Microsoft Certified: Azure Fundamentals (AZ-900)

Jan 2025

AWS Certified: Cloud Practitioner (CLF-C02) AWS Certified: Solutions Architect (SAA-C03) July 2025

In Progress

SKILLS

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

Frameworks & Platforms: Azure: Logic Apps, Data Factory, Functions, BizTalk, Apache Airflow, Docker, dbt, GCP: Google Cloud Storage, BigQuery, Cloud Composer, AWS:Lambda, S3, DynamoDB, API Gateway, Bedrock, CloudFormation), FastAPI, RESTful API, React JS

Developer Tools: Git, VS Code, Visual Studio, Azure DevOps, JIRA, Confluence, Docker, Kubernetes, AWS Cli Libraries & SDKs: TensorFlow, pandas, NumPy, scikit-learn, OpenAI SDK, matplotlib