

# James Morales

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## EDUCATION

### Western University & Ivey School of Business

BESc, Software Engineering & HBA, Business Administration (dual degree)

London, ON

2020 – 2025

- GPAs: 3.9/4.0
- Junior VP, Ivey Analytics Club | Director, Western Engineering Competition | Member, Ivey Tech Club | Intramural Soccer & Flag

## EXPERIENCE

### Software Engineering Intern

Nov 2024 – Present

Flowmatic

Toronto, ON

- Launched an OpenAI-driven email composer that pulls invoice, contract and customer data, cutting sales rep preparation time from 30 min to 1 min and standardizing customer outreach
- Deployed an Airflow+PostgreSQL ETL on AWS EC2 that ingests 10k+ Syspro/Epicor records daily, powering self-serve analytics
- Built an anonymized PostgreSQL demo environment with custom seed scripts; demoed the product directly to C-suite stakeholders while ensuring full customer-data policy compliance

### Software Engineering Intern

May 2024 – August 2024

Zynga Inc. – Analytics

Toronto, ON

- Built a React+Python analytics plugin that lets game-team analysts run player segmentation and visualize experiment KPIs—now used daily on *Harry Potter: Puzzles & Spells* and *Words With Friends 2*
- Supported migration of a legacy ETL service to a lower-cost architecture; added granular Airflow logging and built a Splunk dashboard to surface real-time pipeline-health alerts, eliminating idle compute and saving \$250K in annual AWS spending
- Delivered containerized Jenkins pipelines on Kubernetes for Terraform data sync, giving engineers a one-click deployment path

### Software Developer Intern

Nov 2023 – March 2024

Repwave

Remote

- Integrated an OpenAI meeting-insights micro-service into a Flask backend, generating automatic summaries and action items, reducing meeting summarization to less than 5 mins
- Owned UX flows from Figma wireframes to production UI; conducted five usability tests that cut task-completion time by 30%

### Business Systems Analyst Intern

May 2023 – August 2023

Ontario Health – Digital Services

Toronto, ON

- Led daily Scrum and bi-weekly sprint meetings for a 6-member team, optimizing backlog flow and boosting sprint velocity 20% across 4 iterations
- Developed an Azure DevOps analytics dashboard (burndown, cumulative-flow, Gantt), giving executives real-time delivery insight

## PROJECTS

### London Delays – 1<sup>st</sup> Place, Western SE Capstone

Fall 2024 - Spring 2025

- Built a real-time ETL service that streams weather and traffic feeds (1k+ events per min) into MongoDB for sub-200ms look-ups
- Integrated a TensorFlow delay-forecast micro-service, pulling predictions and piping results into Grafana using a REST endpoint for live visualization (< 5 min MAE, 15-min horizon)
- Released dashboard to PhD users, surfacing delay risk to riders and planners; project voted 1<sup>st</sup> in Western SE capstone showcase

### Stockr – AI-Powered Portfolio Management

Fall 2024

- Launched a serverless, full-stack platform on Vercel with an AI advisory engine using the OpenAI API that benchmarks holdings against SEC filings and ratio analysis, then returns actionable buy/hold/sell insight in plain English
- Streams market data via open-source APIs (Alpha Vantage, IEX Cloud, Yahoo Finance), visualizing on an interactive dashboard, P&L, risk metrics, portfolio pie chart, ticker price graph and allocation drift in real time, driving quicker decisions

### Cheer Web App | Release 2 Demo

Fall 2023 - Spring 2024

- Deployed on GCP a role-based access control web app with real-time messaging via Socket.io, staff scheduling, payroll, and ElevenLabs TTS for accessibility
- Partnered with Family Connections Cheer for 8 months; led scrum meetings and coordination on Jira throughout complete SDLC

### Hero Hub Web App | GitHub

Fall 2023

- Deployed HeroHub on AWS EC2; full-stack PERN application enabling users to explore, manage, and review popular superheroes

## TECHNICAL SKILLS

**Languages:** Java, Python, Javascript, Typescript, Go, C#, SQL, NoSQL, HTML, CSS

**Frameworks:** React, Vue.js, Next.js, Node.js, Flask, Django, FastAPI, SpringBoot, JUnit, Material-UI

**Developer Tools:** Git, Docker, Kubernetes, Jenkins, Airflow, Terraform, DataBricks, Grafana, Splunk, Postman, Google Cloud Platform (GCP), Amazon Web Services (AWS), AKS, DynamoDB, MongoDB, PostgreSQL, VS Code, IntelliJ, Figma, Jira, Azure DevOps

**Certifications:** Kubernetes on Azure, GCP DevOps Workflows (CI/CD), GCP Deploy Kubernetes Apps, Google Project Management