

James Morales

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EDUCATION

Western University

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

London, ON

2020 – 2025

- GPAs: 3.9 (Eng), 3.7 (HBA)
- Junior VP, Ivey Analytics Club | Director, Western Engineering Competition | Member, Ivey Tech Club | Intramural Soccer & Flag

EXPERIENCE

Software Engineering Intern

Nov 2024 – Present

Toronto, ON

Flowmatic

- Launched an OpenAI-driven email composer that pulls invoice, contract and customer data, cutting rep prep 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 seed scripts, enabling realistic product demos without violating customer-data compliance

Software Engineering Intern

May 2024 – August 2024

Toronto, ON

Zynga Inc. – Analytics

- 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 the migration of a legacy ETL service to a lower-cost architecture; added granular Airflow logging and built a Splunk dashboard from scratch to surface real-time pipeline-health alerts—eliminating idle compute and saving \$250 K in YoY AWS spend
- Delivered containerized Jenkins pipelines on Kubernetes for Terraform data sync, giving engineers a one-click deployment path

Software Developer Intern

Nov 2023 – March 2024

Remote

Repwave

- Collaborated with a senior Salesforce engineer to plug an OpenAI meeting-insights micro-service into our Flask/FastAPI backend; enabling auto-generated summaries and action items that cut reps' follow-up prep time by 30%
- Owned UX flows from Figma wireframes to production UI—ran five usability tests that cut task completion time by 30%

Business Systems Analyst Intern

May 2023 – August 2023

Toronto, ON

Ontario Health – Digital Services

- Led daily Scrum and bi-weekly sprint ceremonies for a 6-member cross-functional team, optimizing backlog flow and boosting sprint velocity 18% across 4 iterations
- Developed an Azure DevOps analytics dashboard (burndown, cumulative-flow, Gantt), giving executives real-time delivery insight

PROJECTS

London Delays – 1st 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 1st 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, DataDog, Postman, Google Cloud Platform (GCP), Amazon Web Services (AWS), DynamoDB, MongoDB, PostgreSQL, VS Code, IntelliJ, Figma, Jira, Azure DevOps