

# Hunter Bevis

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Results-driven software engineer with 8 years of experience specializing in automation, cloud infrastructure, and large-scale data validation. Currently leading the development of scalable validation systems at IBM, optimizing Kubernetes orchestration frameworks, and designing high-performance API services.

## PROFESSIONAL EXPERIENCE

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### International Business Machine, IBM

Senior Software Engineer

New York City, NY

Sep 2022 – Present

- Led development of powerful validation system to automate the data validation processes. Currently handling billions of rows of financial data and processing tens of thousands of validation jobs each month.
- Reduced cluster compute and ram usage on K8 cluster by 78%, leading to over one million dollars annually saved in compute costs across dev and production environments.
- Built Validation System on Kubernetes orchestration framework to spin up validation jobs on-demand, optimizing resource utilization and reducing validation times in production by 99%.
- Built an API service that enables users and downstream applications to query any data object within our data ecosystem and instantly retrieve its current validation results in multiple formats (HTML, JSON, Parquet, CSV, Excel).
- Spearheaded our annual internship program, overseeing the recruitment, training, and mentorship of aspiring software engineers.

### International Business Machine, IBM

Full Stack Software Engineer

New York City, NY

Aug 2021 – Sep 2022

- Developed and optimized a high-performance data engine using Python and Apache Spark to process billions of rows of financial data daily with distributed computing techniques and a scalable architecture.
- Collaborated on High Performance Computing initiatives to refine data transformation application, directly increasing the throughput capacity of IBMs core financial data lake.
- Automated software delivery lifecycles using Jenkins, reducing manual deployment overhead and standardizing testing protocols across the data engineering teams.
- Implemented a distributed locking mechanism using python backend to prevent simultaneous read/write operations, eliminating data corruption and race conditions across running jobs.

### Medpace

Software Engineer

Cincinnati, OH

May 2017 – Aug 2021

- Collaborated on development and implementation of new, more efficient automated test scripts, created test plans, and configured test systems.
- Set up and dockerized Selenium Grid, a smart proxy server, for the team to run test cases in parallel across all major browsers and operating systems, reducing regression testing time by 85%.
- Identified potential software defects, assisted in project management, and participated actively in weekly team meetings with the automation team.
- Evaluated and tested existing tools in the market to inform decisions on new tools for future automation plans, ultimately cutting ongoing operating costs by \$50,000 annually.

### LeftHorizon.com

Creator, Side Project

Dallas, TX

Dec 2025 – Present

- Architected and developed a high-concurrency financial transactor engine in Golang to allow anonymous users to submit millions of transactions anonymously.
- Implemented a sharded lock strategy using a 1024-shard ledger architecture to reduce mutex contention and maximize throughput across multi-core systems.
- Designed a deadlock-prevention mechanism by enforcing strict lock-ordering (deterministic acquisition based on account ids) for multi-account atomic transfers.
- Developed a custom worker pool pattern utilizing asynchronous job queues and buffered channels to decouple transaction submission from execution, optimizing CPU utilization.

**UNIVERSITY Of Cincinnati**

Bachelor of Science in Computer Science

**Cincinnati, OH**

2016 - 2020

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**ADDITIONAL SKILLS**

- Python, Typescript, GO, Java, React, Svelte, Kubernetes, Cloud Services, AWS, EC2, Jenkins, Docker, OAuth, RESTful API, SQL, SQLite, Apache Kafka, Apache Spark, Mentorship, Leadership, System Design