

Ronniel Gandhe

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SKILLS

Languages: TypeScript/JavaScript, Python, SQL (PostgreSQL, MySQL)

Web & APIs: React, Next.js, Node.js, FastAPI, GraphQL, gRPC

Data & ML: Spark, Databricks, MongoDB, Redis, scikit-learn, PyTorch, TensorFlow, MLflow, A/B testing

Cloud & Systems: AWS (S3, Lambda, ECS, ELB, API Gateway, DynamoDB), GCP, Docker, Kubernetes, CI/CD

Certifications: Wharton Quantitative Modeling; Google Cloud & NYIF Machine Learning for Trading

Visualization: Tableau, Power BI, Pandas, NumPy

EDUCATION

Wilfrid Laurier University

B.Sc. in Computer Science (Management Option)

Waterloo, ON

Sep 2023 – Present

EXPERIENCE

Augmentor Labs

Palo Alto, CA

Software Engineering Intern, Cloud Infrastructure Team

Jan 2025 – Apr 2025

- Built event ingestion and normalization pipelines to S3/DynamoDB with schema contracts and anomaly checks. Reduced p95 ingestion latency by **35%** and eliminated **10+** weekly debug tickets while unblocking model training and improving analytics freshness. Enabled SLA-compliant retrains and reduced DS triage time during spikes.
- Developed webhooks to integrate **GitHub/Bitbucket, Jira/Confluence, and Salesforce**. Designed request and response flows with retries, enabling seamless cross-platform updates and reducing manual sync work across teams. This lowered integration friction and support overhead.
- Used **TypeScript/React** to design and consume REST APIs. Authored **OpenAPI** specs, generated a **typed client**, and added **contract tests** in **CI**. Reduced integration bugs and improved feature delivery speed.
- Delivered observability for data and ML SLAs with dashboards and alerts for freshness, null-rate, and error spikes. Added correlation IDs for end-to-end traces and dropped mean-time-to-detect by **42%**, improving safety and rollback reliability.

CIBC

Toronto, ON

Data Scientist Intern, Technology Operations

Jan 2024 – Aug 2024

- Owned **data contracts** and versioned schemas for partner teams. Wrote migration scripts and linters in CI, cutting integration breakages by **40%** and speeding cross-team releases through Jira-linked workflows.
- Built **CI/CD** pipelines with GitHub Actions, including type checks, unit and contract tests, and coverage gates. PR lead-time dropped by **35%**, and more defects were caught pre-merge. Deployment status automatically surfaced to Jira.
- Implemented **feature flags**, blue/green and canary rollouts with runbooks and alerts using Grafana and CloudWatch. Staleness-related on-call incidents fell by **30%**, and safe rollbacks completed in minutes.
- Created **release/SLO dashboards** for latency, error rate, and CTR impact. Partnered with PMs to set SLAs and guide metrics-based iteration after releases.

PROJECTS

YourNews — AI-Ranked Search Panels

Next.js, Express, TypeScript, OpenAI, MongoDB

- Built retrieval to ranking model based on (TF-IDF/BM25, recency decay, source priors, per-domain cap, profile focus) with LLM summaries (*Key Insights, Actions, Watch*) and panels rendering in **3–5s** with improved relevance.
- Added profile-aware ranking with **smart query classification** (person, event, topic, market) and lightweight click-feedback personalization. Introduced incremental refresh and result caching to keep panel switches responsive.

QuantZoo — Production Trading Framework

Python, PyTorch, Hugging Face, scikit-learn, FastAPI, Docker

- Built an **event-driven backtesting engine** with realistic **fees and slippage, walk-forward validation**, and a **DuckDB persistence layer**. Added a CLI (qz) for running, reporting, and exporting leaderboards.
- Implemented an **end-to-end ML pipeline** using PyTorch and Hugging Face. Designed a **hybrid news+price classifier**, applied **time-based splits** to prevent leakage, and included auto **model cards** and an **evaluation suite** for ROC AUC, calibration, and attribution. Dockerized monitoring with Prometheus and Grafana and set up CI pipelines for pytest, mypy, flake8, and Bandit/Safety.