

Ishan Baliyan

+1(613) 400-8268 ✉ ishan.baliyan@uwaterloo.ca  linkedin.com/in/ishan-baliyan  github.com/IshanBaliyan

Skills

Languages Go · Python · Java · C++ · Ruby · SQL · JavaScript/TypeScript

Tools Docker · Kubernetes · AWS (EC2, S3) · GCP · Redis · Linux · Git

Frameworks REST APIs · gRPC · Microservices · Distributed Systems · CI/CD · Multi-threading

Education

University of Waterloo

Sep. 2021 – Apr. 2026

Candidate for Bachelor of Computer Science · GPA: 3.9/4.0

Waterloo, ON

- **Competitive Programming:** Top 1% on Leetcode Competitions out of 30,000 participants (2023, 2024)
- **Publications:** Co-author of 2 peer-reviewed publications in Databases and Distributed Systems at University of Waterloo
- **Coursework:** Algorithms, Data Structures, Operating Systems, Distributed Systems, Database Systems, Cloud Computing

Work Experience

Twitter (xAI)

Apr. – Sep. 2025

Software Engineering Intern

San Francisco, CA

- Designed scalable backend services in Go and Python, powering high-throughput user-facing data APIs.
- Led end-to-end development of backend tools for AI-powered ads (with Grok xAI integration) and feed latency by 40%.

PlayStation

Sep. – Dec. 2024

Software Engineering Intern

Chicago, IL

- Built cloud-native microservices in Go and Java to support real-time game telemetry pipelines.
- Integrated gRPC-based infrastructure into the existing distributed system, reducing network overhead.
- Deployed and monitored containerized services via Kubernetes and Docker across AWS environments.

Kinaxis

Sep. 2023 – Apr. 2024

Software Engineering Intern

Toronto, ON

- Developed and tested distributed backend tools in Python and C++ for supply chain optimization workflows.
- Created internal infrastructure tooling using Go and SQL, reducing pipeline failures by 35%.
- Maintained cloud services on GCP with Docker and CI/CD automation for seamless code deployments.

Atolio

May. 2022 – Jan. 2023

Software Engineering Intern

San Francisco, CA

- Engineered core backend logic in Ruby and Python, enabling scalable internal search and data ingestion systems.
- Improved request throughput by 50% by redesigning queueing mechanisms using Go and Redis.
- Supported migration of on-prem services to Kubernetes clusters on GCP using Helm and Docker.

MVS Systems


Jun. – Aug. 2021

Software Engineering Intern

Toronto, ON

- Built backend REST APIs in Java and SQL to serve a customer-facing analytics dashboard.
- Optimized multi-threaded processing workflows for real-time alerts with C++, reducing lag by 20%.
- Configured CI/CD pipelines and logging infrastructure with Docker and Linux for production reliability.

Relevant Projects

 **iOS Resume Builder** | CockroachDB, Swift, OpenAI GPT-4, PostgreSQL, RevenueCat SDK

- Created a Resume Builder app on [App Store](#) and [Google Play](#), resulting in **50,000+ downloads** and **\$7,500 revenue**.
- Engineered 18+ user-facing features and 15+ A/B tests for increasing user-engagement and session time by 40% .
- Architected end-to-end ETL pipeline architecture, processing over 100,000 events in Firebase and OpenAI API.
- Designed Python data visualization tools integrated with Firebase Analytics to track user behavior across 15+ key features.
- Achieved 20% month-over-month user growth, 200+ Five-Star reviews, and 50,000 downloads across 124+ countries.

 **Phone Automation for Restaurants** (video demo) | Python, Twilio, Javascript, OpenAI GPT-4, MySQL, Square API

- Designed an AI phone assistant, "Talk & Order," to automate phone calls at restaurants in Waterloo, no human staff needed.
- Built a Twilio system that manages real-time, concurrent calls, ensuring restaurants never miss an order during peak hours.
- Deployed the solution in three pilot restaurants in Waterloo, generating potential savings of \$4,000 in monthly revenue.