Ishan Baliyan

linkedin.com/in/ishan-baliyan github.com/IshanBaliyan

Skills

Languages   Python · Rust · JavaScript/TypeScript · SQL · React · C++ · Java · Go
Tools   MongoDB · Kafka · MySQL · AWS (EC2, S3) · Docker · Kubernetes · Git · Linux · REST APIs
Frameworks   React · Node.js · FastAPI · Flask · Express · Distributed Systems · Product Engineering

Education

University of Waterloo   **Sep. 2021 – Apr. 2026**
Candidate for Bachelor of Computer Science · GPA: 3.9/4.0   Waterloo, ON
- **Publications**: Co-author of 2 peer-reviewed publications in Human-Computer-Interaction and AI Robotics.
- **Coursework**: Algorithms, Data Structures, Operating Systems, Distributed Systems, Database Systems, Cloud Computing

Work Experience

xAI   **Apr. – Present**
Software Enginer Intern   San Francisco, CA
- Building in a startup environment, where I was one of 12 engineers responsible for the $2 billion Twitter Ads system.
- Created 7 products totaling $10M in revenue, including an AI Ad generator, Shopify integration with X ads, safety filtering billions of ads, boost analytics ($40,000/day), and building for key stakeholders such as Amazon, Nike, and US politicians.
- Developed using Python, TypeScipt, Java, MySQL, Kafka, and working across entire stack (product, infra, db, ui/ux).
- My team and I demo our work directly to Elon Musk every week, and during crunch time we push 80-100 hour weeks.

PlayStation   **Sep. – Dec. 2024**
Software Engineering Intern   San Francisco, CA
- Developed scalable API endpoints in Python, JavaScript, Rust to support dynamic content rendering in user-facing apps.
- Improved frontend reliability using React and integrated with backend services running on Docker/Kubernetes.
- Enhanced telemetry data processing using PostgreSQL, optimizing performance by 30%.

Kinaxis   **Sep. 2023 – Apr. 2024**
Software Engineering Intern   Toronto, ON
- Created full-stack web interfaces in Python and React for enterprise analytics tools used by Fortune 500 clients.
- Refactored backend services in Python to reduce latency in database queries on MySQL/Postgres by 25%.
- Deployed new features weekly, collaborating cross-functionally across PM and ops to hit key product deadlines.

Atolio   **May. 2022 – Jan. 2023**
Software Engineering Intern   San Francisco, CA
- Built customer-facing dashboard features in Rust and Python for internal knowledge management tooling.
- Maintained backend services in Go and Python, adding observability metrics to improve reliability SLAs.
- Containerized and deployed full-stack services using Docker and AWS, enabling CI/CD workflows.

Relevant Projects

iOS Resume Builder | *OpenAI API, Python, PostgreSQL, RevenueCat SDK*
- Created a Resume Builder app on **App Store** and **Google Play**, resulting in **50,000+ downloads** and **$30,000 in profit**.
- 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) | *OpenAI API, 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.