

Divyansh Chandarana

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SUMMARY

Software Engineer focused on backend and cloud infrastructure, with experience building internal tools, distributed services, and observability for large-scale systems. Proficient in Python, Java, Go, and C++ with hands-on work across AWS, Linux on x86, REST APIs, and data pipelines. Delivered production-scale services at Amazon, automation platforms at ASU, and interested in high-impact distributed systems and infrastructure tooling.

EDUCATION

Arizona State University

Bachelor of Science in Computer Science

GPA: 3.99/4.00

January 2023 – May 2026

TECHNICAL SKILLS

Languages & Frameworks: Python, Go, Java, C++, Swift, C#, JavaScript (ES6+), TypeScript, SQL, React, Node.js, Flask, Spring Boot, SwiftUI.

Cloud & Infrastructure: AWS (EC2, Lambda, S3, CloudWatch, CI/CD), Docker, GitHub Actions, Linux/Unix on x86, Git, Postman, Figma, Jira.

Software Engineering Practices: Backend Development, Distributed Systems, REST API Design, Data Pipelines, Observability & Monitoring, Scalability, Reliability, Testing, SDLC.

WORK EXPERIENCE

Software Development Engineering Intern

May 2025 – August 2025

Amazon.com, Inc.

Tempe, AZ

- Designed and deployed a **distributed compliance API service** processing **250K+** daily requests across global marketplaces on **AWS**, running on Linux-based **EC2 instances on x86 hardware**, with **zero-downtime** deployments.
- Implemented end-to-end **observability pipelines** with **CloudWatch metrics, structured logging, and alerts**, improving failure detection and recovery speed by **22%** for internal customers.
- Optimized backend throughput and reduced **p99 latency by 17.8%** through asynchronous request handling, API refactoring, and caching, increasing service **reliability and scalability** under peak traffic.
- Collaborated with senior engineers on design reviews, code reviews, and rollout plans to ensure changes met **availability, security, and performance** requirements for a multi-region infrastructure service.

Research Analyst

January 2024 – Present

Arizona State University

Tempe, AZ

- Developed and deployed an **AI transcription platform** leveraging **ASR models and Python services** to generate transcripts and captions, improving accessibility for **12,760+** learners across Learning Enterprise programs.
- Implemented **data pipelines and ETL workflows** using **Python, SQL, AWS, and Docker** to orchestrate ingestion, preprocessing, containerized inference, and analytics delivery, reducing manual transcript operations by **hundreds of hours per term**.
- Leading migration from cloud inference to an **on-device pipeline** on an Apple M-series server for faster, private, and cost-efficient processing, reducing latency by **60%+** and operational cost per hour.
- Built internal dashboards and reporting views to monitor **accuracy, latency, and usage metrics**, enabling stakeholders to track system health and prioritize improvements to the underlying infrastructure.

PROJECTS

SignalQ – QR-Based Customer Feedback Platform

August 2025 – Present

Capstone Project – Arizona State University

- Architected a **multi-tenant SaaS feedback platform** for restaurants and retail using **React, TypeScript, Vite, Tailwind, Firebase Firestore**, and a **Python Flask** backend, generating dynamic QR codes that route customers to location-specific flows and rewards.
- Designed Firestore **schema and security rules** (**businesses, feedback, rewards**) with role-based access control, denormalized analytics fields, and ID-based lookups for **O(1)** queries and scalable, location-aware reporting.
- Implemented QR code generation pipeline (**react-qr-code + Canvas API → SVG→PNG**), context-aware routing, and reward delivery, ensuring high-error-correction QR codes that work reliably across print and digital surfaces.
- Built a reusable analytics dashboard with aggregated metrics on response rates, ratings, and location performance to help business owners monitor feedback trends.