

ADRIT GANERIWALA

+1 (470)-929-0953 | adritganeriwala0503@gmail.com | linkedin.com/in/adritg | github.com/adrit-ganeriwala-05

EDUCATION

Georgia State University

Bachelor of Science in Computer Science

Atlanta, GA

Aug 2022 – Dec 2026

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Dart, SQL, HTML, CSS

Frameworks & Tools: Spring Boot, React, Next.js, Flutter, MongoDB, PostgreSQL, Prisma, Firebase, Tailwind CSS, PyTorch, timm

EXPERIENCE

Student Assistant, Application Solutions Specialist

Aug 2024 – Jan 2025

Georgia State University

Atlanta, GA

- Maintained 99%+ uptime for 50,000+ users by managing provisioning and diagnosing account failures across **Office 365** and **Webex**, enabling highly reliable enterprise communications.
- Resolved 30–40 issues weekly by diagnosing account, licensing, and configuration failures, reducing service downtime.
- Managed user provisioning and access controls across platforms, improving compliance and operational consistency.

Student Assistant, Learning Environment Technician

Mar 2023 – Aug 2024

Georgia State University

Atlanta, GA

- Maintained 98% AV network uptime across 30+ rooms by resolving 100+ monthly support tickets and addressing recurring root failures.
- Identified and resolved root causes of recurring classroom AV failures, reducing repeat incident rate and improving long-term reliability.

PROJECTS

Nest Quest | *Next.js, TypeScript, MongoDB, Prisma, PostgreSQL, OpenAI API, Tailwind CSS*

- Built a full-stack verified housing platform serving 100+ international students, featuring AI-powered recommendations via the **OpenAI API** and real-time chat in **Next.js** and **TypeScript**.
- Architected a dual-database backend using **MongoDB** for unstructured user data and **PostgreSQL** with **Prisma** ORM for relational records, optimizing query performance under high-concurrency loads.

FrameForge | *Spring Boot, Java, Selenium, PostgreSQL, React*

- Engineered a multithreaded web crawler in **Java** within a **Spring Boot** REST API, scraping live PC part prices across multiple retailers and achieving a 40% reduction in data retrieval time via concurrent thread pooling.
- Built a **React** frontend with real-time price comparisons and component-level filtering, letting users optimize PC builds against live market data.

DefectScan AI | *Python, PyTorch, timm, MobileNetV4, Streamlit*

- Designed a two-stage knowledge distillation pipeline in **PyTorch** compressing a **MobileNetV4-Conv-Medium** teacher (8.7M params) into a **MobileNetV4-Conv-Small** student (2.5M params) using a combined CE + KL Divergence + Attention Transfer loss, achieving **99.63% test accuracy** and a macro F1 of **0.9922** on an 8,851-image 3D print defect dataset.
- Applied Dynamic **INT8** post-training quantisation to reduce the student model to **2.91 MB**, delivering **152 FPS** at **6.56 ms** average latency on a 4-thread CPU — a **1.93×** speedup over the teacher — enabling fully offline edge deployment with zero accuracy loss.
- Built a **Streamlit** MLOps dashboard with live webcam inference, per-class confidence scoring with severity triage (critical/moderate/minor) across three defect classes: spaghetti, stringing, and zits.

TropicaGuide | *Flutter, Firebase, Dart, Riverpod, TypeScript, Gemini API*

- Built a full-featured cross-platform collaborative travel app in **Flutter/Dart** with **Riverpod 2.x** state management, implementing real-time trip itineraries with drag-and-drop scheduling, atomic-transaction shared checklists via **Firestore runTransaction**, and an iMessage-style group chat synced across all trip members.
- Integrated **Gemini 2.5 Flash** via HTTP in JSON mode to generate AI activity suggestions per destination, and deployed a 2nd-gen **TypeScript** Cloud Function (**optimiseItinerary**) to **Firebase** that scores and reorders activities by budget fit, time fit, and variety.
- Implemented end-to-end security with server-side **Firestore** rules enforcing **isTripMember()** checks, **FCM** push notifications with deep-link support on launch, and cryptographically secure 6-character invite codes for instant trip sharing.