

ADITYA GANDHI

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EDUCATION

Georgia Institute of Technology (Georgia Tech)

Masters in Computer Science

August 2023 - May 2025

GPA: 3.86/4.0

Pandit Deendayal Energy University

Bachelors in Computer Engineering

August 2019 - May 2023

GPA: 9.86/10.00

WORK EXPERIENCE

Cling Multi-Solutions | SDE Intern

January 2023 - June 2023

Tech-Stack: NextJS, ReactJS, AWS, REST API, NodeJS, ExpressJS

Pune, Maharashtra

- Redis caching layer decreases API latency, and improved **database indexes** allow better querying.
- Architected serverless microservices using AWS Lambda, RabbitMQ & DynamoDB, reduced costs by **35%**.
- Spearheaded Yogyata Company's portal creation with NextJS, JWT authentication and Express middleware.
- Led a team of 3 in comprehensive prototype testing, resulting in a **30%** reduction in workload & **99.6%** uptime.

eInfochips Organization | Summer Intern

May 2022 - July 2022

Tech-Stack: NodeJs, ReactJS, Redux, MYSQL, D3.js, Redis

Remote

- Engineered a visual inspection module for real-time monitoring of CDN server traffic data with **D3.js**
- Time series data partitioning with SQL and Redis caching layer reduces latency by **80%** for relevant queries.
- State management with Redux and RTK Query coupled with custom middleware improved rendering.

PROJECTS

Web-Scraper | Angular, NestJS, GraphQL, PostgreSQL, Redis, Axios

([Github](#))

- Implemented Angular change detection strategies and OnPush detectors in Ng-Zorro components, reducing rendering cycles by **40%**
- Partitioned tables in PostgreSQL based on date ranges cause sub-**100ms** response times for historical searches.
- Architected state management using **NgRx**, and implemented entity adapters for normalized data storage.

Resume maker Hub | Flask, Python, NextJS, Supabase, Redis, Tailwind CSS

([Github](#))

- Utilizes complex join queries, row-level security policies and composite indices for **30%** faster data retrievals.
- Redis distributed caching layer has **200ms** response time for compilation through intelligent fragment caching
- Uses Supabase Realtime and WebSocket channel with Operational Transformation-based conflict resolution.
- Custom text editor using Next.js server Components & Selection range API, reduces render cycles by **40%**.

Portfolio Website | ReactJS, Framer-Motion, ts Particles, Three.js, JavaScript, SCSS

- Personalized portfolio website that optimizes load time by **35%** through strategic code splitting and lazy loading.
- Implemented an interactive background with **tsParticles.js** & custom shaders; a contact portal with email.js.
- Integrated **Framer Motion** animations with Intersection Observer API for scroll-triggered effects.
- Incorporated custom **3D** objects using the **Three.js** library, increasing average site engagement time by 55%.

RESEARCH PUBLICATIONS

Integrated Database Management System for Emergency Services | SQL

([AIMV Conference](#))

- Researched strategies to integrate disparate emergency services and formulated advanced database management concepts, including data partitioning and real-time synchronization, cutting response time by **25%**.
- Built complex stored procedures for real-time validation; data masking for granular access control.

SKILLS

- **Technical Skills:** JavaScript, React, Angular, GraphQL, D3.js, NodeJS, Express, PostgreSQL, DynamoDB, Tailwind CSS, Sass, Git, Github, AWS, REST Api, HTML, CSS, C++, Python, Problem-solving

ADDITIONAL DETAILS

- **Graduate Teaching Assistant** for AO6263 - Network-Security course. *Georgia-Tech*
- **LeetCode:** Guardian Badge Achieved. **Highest ranking: 2203.** More than **1100** problems solved.