

Arkaparna Gantait

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EDUCATION

Georgia State University

Bachelor of Science in Computer Science, GPA: 3.58/4.0

Atlanta, GA

Aug. 2022 – Dec. 2025

- Honors: Honors College Student, Dean's List (5 of 9 semesters)

EXPERIENCE

Undergraduate Teaching Assistant

Sep. 2023 – Mar. 2025

Georgia State University, Computer Science Department

Atlanta, GA

- Assisted 100+ students with debugging, code reviews, and understanding programming concepts in data structures and software engineering courses
- Held weekly office hours to provide one-on-one support for assignments, explain backend concepts, APIs, and system design fundamentals
- Graded assignments and provided detailed feedback on code quality, helping students improve their programming skills and debugging techniques

PROJECTS

Slurpy - AI Mental Health Companion | slurpy.life

Apr. 2025 – Present

- Designed and deployed multi-persona AI chatbot with mode-conditioned dynamic response behaviors serving 50+ active users
- Fine-tuned DistilBERT models achieving 89% emotion detection accuracy and implemented intent classification to guide conversational strategy
- Implemented Retrieval-Augmented Generation using Qdrant vector databases for long-term contextual memory with Model Context Protocol server to cache pre-computed context, reducing RAG latency significantly
- Developed backend services with FastAPI integrating JWT authentication and Row-Level Security via Supabase, focusing on privacy-aware design and production-ready deployment

Sarge - DevOps Monitoring Platform | v0-sarge.vercel.app

Mar. 2025 – May 2025

- Built self-service DevOps platform enabling users to create and manage infrastructure stacks from GitHub repositories
- Implemented AWS-like cloud emulation workflows to simulate deployments, inspect logs, and validate configurations
- Integrated CI/CD monitoring and observability using Docker, Prometheus, and Grafana with real-time deployment feedback via WebSockets
- Unified infrastructure management, deployment, and monitoring in single platform with sub-500ms streaming across 3 Dockerized microservices

Notoria - Academic Collaboration Mobile App | github.com/ItsMysterix/notoria

Jan. 2024 – Apr. 2025

- Developed multi-role mobile application for admin, instructors, and students using Flutter and Firebase with role-based access control
- Enabled real-time collaboration through shared notes, discussion threads, and voice-based channels with real-time data synchronization
- Designed Discord-style communication workflows optimized for academic collaboration ensuring data consistency across iOS and Android

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C#

Backend & APIs: FastAPI, Node.js, Express.js, REST, WebSockets, JWT Authentication, GraphQL, tRPC

Frontend & Mobile: React, Next.js, Vue.js, Flutter

AI & Machine Learning: NLP, LLMs, DistilBERT, PyTorch, HuggingFace Transformers, RAG, Vector Databases, Fine-tuning

DevOps & Cloud: AWS (EC2, S3, Lambda), Docker, GitHub Actions, CI/CD, Prometheus, Grafana, Nginx, Microservices

Databases & Storage: PostgreSQL, MongoDB, Supabase, NeonDB, Firebase, Firestore, Qdrant, Redis

Testing & Tools: Jest, Playwright, PyTest, TDD, Git, Linux, VS Code