

Arkaparna Gantait

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EDUCATION

Georgia State University <i>Bachelor of Science in Computer Science, GPA: 3.58/4.0</i> <ul style="list-style-type: none">• Honors: Honors College Student, Dean's List (5 of 9 semesters)	Atlanta, GA Aug. 2022 – Dec. 2025
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EXPERIENCE

Undergraduate Teaching Assistant <i>Georgia State University, Computer Science Department</i>	Sep. 2023 – Mar. 2025 Atlanta, GA
<ul style="list-style-type: none">• 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 <i>slurpy.life</i>	Apr. 2025 – Present
<ul style="list-style-type: none">• 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 <i>v0-sarge.vercel.app</i>	Mar. 2025 – May 2025
<ul style="list-style-type: none">• 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 <i>github.com/ItsMysterix/notoria</i>	Jan. 2024 – Apr. 2025
<ul style="list-style-type: none">• 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