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Education

University of Georgia, Athens, GA

Aug 2024 - May 2026

MS in Computer Science

CGPA: 3.95

National Institute of Technology, Raipur, India

Dec 2020 - Jun 2024

Bachelor of Technology in Information Technology

CGPA: 8.21

Relevant Courses: Algorithms, Operating Systems, Database Management System, Object Oriented Methodology, Theory of Computation, Digital Image Processing, Computer Networks, Cryptography and Network Security, Machine Learning, Artificial Intelligence, Deep Learning, Cloud Computing, Mobile Software Development.

Experience

University of Georgia

Dec 2024 - Present

Systems Engineer

Athens, GA

- Developed projects in **Green_House** for greenhouse automation using **C++**, **Shell**, and **Python**, aiming to enhance crop yield through efficient resource management; and **Poultry_Science** for poultry data analysis with **Python** and **C++**, focusing on optimizing health and production metrics.
- Performed **remote Linux system installations** with vendor engineers, ensuring deployments follow security guidelines and working proactively with Global Support to deliver flexible solutions and resolve system problems quickly, utilizing **C++** components in system integrations.
- Collaborated within a global team to translate business problems into AI use cases, collecting and preparing data to build and train ML/LLM models for production deployment.
- Designed and maintained **agentic workflows** where LLM agents plan, call tools, and coordinate multi-step tasks, implementing **orchestration, function-calling, and vector DBs** with prompt design and safety guardrails, integrating **Python** scripts for data processing.

Projects

BuzzCart (Like2Buy) | Flutter, Dart, Go, PostgreSQL, MongoDB, MinIO, Docker

Feb 2026

- @Yash8576/BuzzCart
- Developed production-grade social commerce platform with **Flutter** frontend and **Go** backend, featuring video reels, shopping integration, and 20+ **RESTful APIs** for real-time data sync.
- Architected microservices backend using **Go/Gin framework**, **PostgreSQL** for relational data, **MongoDB** for NoSQL operations, and **MinIO** S3-compatible storage; containerized entire stack with **Docker & Kubernetes**.
- Built **RAG**-powered chatbot service using **FastAPI** with **ChromaDB** vector database and **OpenAI** integration, supporting multiple document formats (**PDF, TXT, DOCX**) and maintaining conversation history in **PostgreSQL**.
- Implemented authentication **JWT tokens**, **bcrypt** password hashing, **role-based access control (RBAC)** for consumers/sellers/admins, social features including follow/unfollow, cart management, and messaging system.
- Engineered **Flutter** mobile app with **Provider** state management, secure token storage using **FlutterSecureStorage**, **Material Design** theming with dark mode, and efficient data models for **Users, Products, Videos, Reels**.

RideShare App | Java, Android Studio, Firebase, Google Maps API

Jan 2025

- @Yash8576/RideShareApp
- Engineered ride-sharing Android application using **Java** with real-time location tracking, automated ride matching, secure payment integration, and driver-passenger communication for concurrent sessions.
- Managed version control using **Git** workflows with branching and pull requests; resolved 20+ merge conflicts across 50+ commits through code reviews, pair programming, and team collaboration.
- Established **Firebase Authentication** for secure user management and **Firestore** for distributed data storage; leveraged **Google Maps API** achieving 95% location accuracy and optimized routing.

Technical Skills

Operating Systems & Administration: Linux (Ubuntu), Remote Installation, System Configuration.

Programming & Scripting: Python, Shell/Bash, SQL, Java, C++

AI/ML & LLM Technologies: Machine Learning, Deep Learning, LLMs, Agentic Workflows, RAG, Vector Databases.

DevOps & Automation: Docker, Kubernetes, CI/CD, Git, Infrastructure as Code, ServiceNow, CMDDB

Data Engineering: Data Collection, Cleaning, Preprocessing, Model Training, Performance Evaluation

API & Integration: RESTful APIs, Model Deployment, Function-calling, Orchestration, Tool Integration

Monitoring & Service Management: Grafana, InfluxDB, Change Management, On-call Support, Incident Response

Collaboration & Project Management: Technical Documentation, Stakeholder Communication