SAGEENA GARG

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EDUCATION

Iowa State University   Aug 2023 - Dec 2026
Bachelor of Science (Honors) in Computer Science   *Ames, IA*
GPA: 3.72 | Top 2%, Class of 2027 | Dean's List: Fall'23, Spring'24, Fall'24 & Spring'25
Relevant Coursework: Data Structure & Algorithms, Advanced Programming Techniques, Software Development & Debugging, Computer Architecture & Machine Level Programming, Discrete Mathematics, Linear Algebra, Database Systems

EXPERIENCE

Data & Web Solutions Intern   Jun 2025 - Jul 2025
Netqom Software Pvt. Ltd.   *Los Angeles, CA*
- Automated client data cleaning with Python & Pandas, **cutting** manual reporting effort by **62% (8 hrs → 3 hrs).**
- Re-built dashboard to visualize proposal win rates, client revenue, and timelines, **reducing bid response time by 15%.**
- Designed a Node.js/Express **API** with MongoDB for real-time updates, enabling tracking of simultaneous 20+ projects.

Undergrad Research Assistant   Feb 2024 - Present
ISU Research Park   *Ames, IA*
- Designed a **hybrid AI framework** that integrated multiple models (OpenAI, Landing AI, and custom-built) to seamlessly interpret structured and unstructured data across PDFs, SQL datasets, and text documents.
- Created a robust pipeline to handle data preparation and model training, **decreasing project timelines by 40%.**
- Developed regression models with R^2/MSE metrics for performance benchmarking and predictive insights on large datasets.

Python Teaching Assistant   Dec 2023 - May 2024
Iowa State University   *Ames, IA*
- Facilitated weekly coding help sessions for 50+ students, clarifying Python, spreadsheets, and database design concepts.
- Mentored peers in debugging and project workflows, fostering problem-solving skills and collaboration in team assignments.

PROJECTS

TravelMate | *Android Studio, SpringBoot, Firebase, RestAPIs*   Jan 2025 - May 2025
- Co-developed full-stack Android app for travel with trip planning, chat, and expenses, **streamlined via CI/CD testing.**
- Integrated Maps, Weather, and OpenAI APIs with Firebase for geofencing alerts, recommendations, and offline chat.
- Engineered an **OCR-powered QR travel wallet** with MySQL, reducing manual entry of tickets and reservations by 70%
- Implemented a Splitwise-style expense manager, streamlining cost-sharing among group members and generating transparent contribution reports.

TripAtlas | *React, Node.js, Express, MongoDB, JWT*   Mar 2025 - May 2025
- Developed a full-stack travel web app integrating destinations, real-time weather, and user reviews into a trip planner.
- Built responsive React frontend with Tailwind CSS and React Router for seamless navigation across different pages.
- Implemented secure **JWT authentication** for login/signup, ensuring personalized user access and data protection.
- Integrated **OpenWeatherMap API** to provide live weather insights, improving reliability of user trip planning decisions.

SignalVerse | *Flask, LangChain, OpenAI, ChromaDB, AWS*   Feb 2024 - Present
- Built an **LLM-powered NLP platform** with Flask and Tailwind for semantic querying of traffic signal manuals.
- Built RAG pipeline with LangChain, OpenAI embeddings, and ChromaDB, reaching **92% accuracy on 800+ docs.**
- Integrated RAG with **generative AI** fallback (ChatGPT + open-source LLMs), boosting complex query coverage by 30%
- Engineered multi-agent workflows and experimented with open-source LLMs to handle structured vs. unstructured data.
- Deployed containerized services on **AWS and used SageMaker Jupyter notebooks** for model testing, integrating a MySQL feedback loop with KeyBERT + **MMR to refine retrieval precision** and responses.

TECHNICAL SKILLS

Python, Java, TypeScript, JavaScript • React, Node.js, Express, Spring Boot, Flask, Android SDK, Firebase, LangChain, Generative AI, OpenCV, Tailwind, OCR MySQL, MongoDB, ChromaDB • AWS, REST APIs, Git, Vercel, Docker, Chart.js

LEADERSHIP

Undergraduate Research Ambassador; Tutor: Calculus I & II – Mentored 80+ students, improving performance by 15%
Industry Relations Chair, ISU Data Science Club – **5+ company relations**, hosted 3 networking events with 50+ attendees

ACCOLADES

1st Place – Ivy Data Visualization & Storytelling Case Competition (Feb 2025) • 1st Place – ISU JPEC Startup Pitch-Off (Feb 2025)• 2nd Place – Meridian Consulting Case Competition (Apr 2025) • 3rd Place – MOVITE Poster Competition (Oct 2024) • LAS Dean's Academic Excellence Award ($2,000)