

# Rishi Raj

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## EDUCATION

### GEORGIA STATE UNIVERSITY

Atlanta, GA

BS in Computer Science | **GPA: 3.9/4.0**

August 2023 - May 2026

- Honors and Organizations: GSU Computer Science Club, GSU Web Design Club, GSU Game Development Club, Association For Information Systems

## PROFESSIONAL EXPERIENCE

### OpenQQuantify

Atlanta, GA

Software Engineer Intern

May 2025 - Present

- Engineered a CesiumJS-powered digital twin web app integrating WeatherAPI for real-time forecasts, UV index, AQI, and marine data across a 3D globe.
- Optimized sensor visualization logic with toggles for overlays (wind, precipitation, astronomy), improving data clarity and reducing user clutter.
- Built custom weather panels with HTML/CSS/JS for 7-day, 24-hour, historical, and future forecasting—supporting up to 300-day lookahead.

### OUTLIER

Atlanta, GA

AI Prompt Engineer

April 2025 - Present

- Evaluated and ranked AI-generated responses from large language models (LLMs) to optimize natural language understanding and improve response quality.
- Provided detailed human feedback on outputs to support reinforcement learning from human feedback (RLHF) workflows used in LLM fine-tuning.
- Contributed to data pipelines that enhanced the alignment of generative models with real-world user intent and ethical guidelines.

### DUTCH MONKEY DOUGHNUTS

Cumming, GA

Operations Associate | Food Services

July 2022 - Present

- Operated under high-pressure, early-morning shifts, preparing 30+ product racks before store opening, ensuring timely readiness and smooth operations.
- Maintained speed and accuracy under tight deadlines, balancing volume demands with quality control in a fast-paced production environment.
- Supported daily operations in a customer-facing setting, demonstrating reliability and resilience through disciplined task ownership and rapid problem-solving.

## PROJECTS

### [AI Travel Concierge](#)

May 2025 - July 2025

Python, JavaScript, HTML, Mapbox GL JS, OpenRouter API, CSS

- Engineered a Flask backend with modular Blueprint routing for AI integration, using OpenRouter's GPT models to process natural language trip planning requests.
- Built a dynamic AI chat interface using vanilla JavaScript and the Fetch API, supporting streaming responses and itinerary hand-off via localStorage.
- Integrated interactive 3D maps using Mapbox GL JS for visualizing airports and itineraries, and Three.js for 3D aircraft modeling.
- Designed a responsive UI/UX with a custom CSS system, ensuring consistent visual hierarchy, button interactions, animations, and mobile responsiveness.

### [EMPLOYEE MANAGEMENT SYSTEM](#)

Feb 2025 - May 2025

Java, MySQL, JavaFX, JDBC

- Developed a full-featured desktop application for HR management, implementing secure login workflows and role-based access control for employees and administrators using JavaFX.
- Built robust backend CRUD functionality to support real-world HR tasks, such as employee onboarding, salary updates, and payroll report generation, anchored by a MySQL database.
- Designed an interactive front-end interface with JavaFX and FXML, using TableView and ListView for dynamic, real-time data rendering that allowed for intuitive admin control and user feedback.
- Ensured secure and scalable database communication via JDBC, using prepared statements and structured queries to mitigate injection risks and uphold data integrity under concurrent access.

## Technical Skills

- Technology/Skills:** Python, Java, SQL, Javascript, Pandas, REST APIs, Asynchronous collaboration, Git, GitHub, MS Office, G-Suite, Excel, HTML, CSS, R, C, C++, DBeaver, R, Flask, Docker, Blender
- Certifications:** AZ-900 Azure Fundamentals (ID: 3599A552E7437F36), AI-900 (ID: 1F263AA7987D8ADF)