

# Rishi Raj

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## EDUCATION

### GEORGIA STATE UNIVERSITY

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

Atlanta, GA

Expected May 2026

- **Courses:** Data Structures and Algorithms, Web Programming, Mobile App Development, Operating Systems, System Level Programming, Artificial Intelligence, Design Analysis and Algorithms, Cloud Computing
- **Clubs:** CodePath, GSU Computer Science Club

## Technical Skills

- **Languages & Frameworks:** Python, Java, C, C++, JavaScript, PHP, R, Dart, SQL, HTML, CSS, Flask, JavaFX, Flutter, Pandas, NumPy, Three.js, CesiumJS, React, Node.js, Express.js
- **Tools & Technologies:** MySQL, PostgreSQL, JDBC, DBeaver, Git, GitHub, Docker, REST APIs, Android Studio, VS Code, MS Office Suite
- **Cloud & Certifications:** Microsoft Azure (AI Fundamentals Certified, Azure Fundamentals Certified), Career Essentials in Data Analysis (Microsoft & LinkedIn), Git Essentials Training

## PROFESSIONAL EXPERIENCE

### OpenQQuantify

Atlanta, GA

Full Stack Software Engineer Intern

May 2025 - Aug 2025

- Developed full-stack 3D weather visualization platform using CesiumJS and WeatherAPI, displaying real-time meteorological data (UV, AQI, marine forecasts, astronomy) on an interactive globe with building overlays.
- Implemented interactive sensor visualization systems with JavaScript event handlers for draggable map entities, toggle controls for multiple data layers (wind, precipitation, astronomy), and real-time tooltip feedback to enhance user data exploration.
- Designed responsive, event-driven architecture with asynchronous API integration, toast notifications, loading states, and collapsible panels with drag-and-drop functionality for improved user experience.

### OUTLIER AI

Atlanta, GA

AI Training Specialist & Prompt Engineer

April 2025 - Present

- Evaluated 250+ AI responses from GPT-4, Claude, and other LLMs, providing detailed feedback that improved model accuracy and identified critical edge cases for reinforcement learning workflows.
- Designed complex test prompts across coding, reasoning, and creative domains to assess LLM capabilities and contribute high-quality training data for model fine-tuning.
- Analyzed outputs for bias, hallucinations, and safety concerns, enhancing AI alignment with ethical guidelines and reducing unsafe model behaviors in production systems.

## PROJECTS

### AI Travel Concierge

May 2025 - Aug 2025

Python, Flask, Mistral AI, Docker, Prometheus, Grafana, MapLibre GL JS, HTML/CSS/JavaScript

- Built production-ready Flask application with Docker containerization and Prometheus/Grafana monitoring, tracking API performance and system health across 1,000+ user requests.
- Integrated Mistral AI for conversational trip planning with intelligent caching that reduced API costs by 60% while maintaining sub-2-second response times.
- Designed a responsive single-page application with asynchronous JavaScript, localStorage persistence for user itineraries, and mobile-first CSS, ensuring cross-browser compatibility.
- Developed an interactive 3D airport visualization using MapLibre GL JS with custom models and dynamic POI rendering, deployed to Render with CI/CD pipeline.

### Employee Management System

Feb 2025 - May 2025

Java, MySQL, Git, JavaFX, JDBC

- Collaborated in a 3-person agile team to deliver an HR management application for 50+ users, implementing a secure login system with role-based permissions.
- Designed MySQL database and built RESTful CRUD operations for employee onboarding, salary, and automated payroll with 100% data accuracy.
- Ensured application security via JDBC prepared statements and transaction controls, collaborating with the team through Git and code reviews.

### Vehicle Tracker App

Sep 2025 - Oct 2025

Flutter, Dart, SQLite, Provider, SharedPreferences

- Integrated state management using Provider with ChangeNotifier, async/await operations for database queries, and comprehensive form validation following DRY principles.
- Designed database schema with foreign key relationships, optimized queries, and implemented a complete CRUD API through Repository pattern.
- Designed and implemented complex business logic for automatic reminder generation, calculating service intervals using dual criteria (mileage and time-based) with status categorization algorithms.