ARJUN REDDY

Software Engineer • Angular • REST APIs • SQL • AWS

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PROFESSIONAL SUMMARY

Software Developer with 4+ years of experience building full-stack applications — front-end interfaces, REST APIs, and SQL data models — most recently an enterprise Human Resources Management System (HRMS) at Rs Technologies, with Flask backend services at Tech Talent Connect and front-end web work at AirFi.in. I break a complex problem into small, shippable parts, work in Agile teams with code reviews and senior feedback, and take ownership of my work from design through testing and production support.

My production code is in Python, SQL, JavaScript, HTML, and CSS, with C#/.NET and Angular alongside it. I build responsive front-end features, REST APIs, and SQL Server/PostgreSQL/MySQL data models, support applications on AWS and Azure, and use AI tools — OpenAI APIs, prompt engineering, and n8n — as part of building and improving products. I hold an M.S. in Information Technology.

TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, C#, .NET, Angular, Flask, JavaScript, HTML, CSS

Front-End: Angular, JavaScript, HTML, CSS, responsive user interfaces, front-end components integrated with backend APIs

Backend & APIs: Python, Flask, C#, .NET, REST API design and development, API integration, JSON, data modeling, JWT token authentication, role-based access control, audit logging, Postman, unit testing, code reviews, phased releases, production debugging

Databases, Cloud & Practices: SQL Server, PostgreSQL, MySQL — schema design, query tuning, stored procedures; AWS, Microsoft Azure (Application Insights), Docker, Git, source control, testing, deployment workflows, production support, Agile/Scrum, SDLC, Kafka, ETL/ELT pipelines

AI & Automation: OpenAI APIs, LLMs, prompt engineering, n8n, NLP, intent routing, summarization, retrieval

PROFESSIONAL EXPERIENCE

Software Developer — Rs Technologies Inc | Novi, MI | Jan 2026 – Present

- Developed and maintained a full-stack internal product — an enterprise Human Resources Management System (HRMS) — from front-end component through API layer to database, owning the work from technical design through testing, code review, and production. Built REST APIs to create, update, list, and search employee profiles, connecting employee-management screens to backend data operations, and developed product features and workflows that make it easy for teams to find and use business information, such as employee search, profile views, and reporting-manager hierarchies.
- Connected the product to internal data sources and systems: SQL Server for employee data and persistence, and Azure Data Factory and Databricks pipelines feeding Azure Synapse and downstream SSRS and Power BI reporting. That data layer keeps the information behind the APIs fresh and queryable for reporting, rather than locked in one application.
- Contributed to technical decisions about application architecture, APIs, data models, security, performance, and reliability for the HRMS. Designed SQL Server schemas and the persistence layer for employee records, supported file-upload and employee-data workflows, and worked on query tuning for employee searches and reporting views, so the product stayed reliable as data and usage grew.
- Implemented JWT token authentication for HRMS security. On login, the system issues a JWT token made up of a header, a payload, and a signature; the token is validated on each API request, and its signature confirms the token has not been tampered with. The payload carries the user's identity and role, so every request is checked before employee data is returned or changed.
- Used JWT authentication together with role-based access control to give security access by role — Admin, HR, and Employee. Each role can only reach the data and actions its work requires, so an Employee user does not get HR or Admin access. Built audit logging alongside those checks, recording who accessed or changed employee data for auditing and compliance review.
- Developed product features using C#/.NET and Angular, with SQL Server for data persistence, and supported applications on AWS. This sits alongside my Python and Flask API work, from front-end component through API layer to database.
- Tested, debugged, monitored, and supported the product in production: investigated API latency and failures with Azure Application Insights, validated APIs with Postman, contributed to code reviews, and worked through phased

releases. Improved the product as business needs changed, enhancing existing features rather than only building new ones, and reviewing solutions with the technical team before release.

Software Developer — Tech Talent Connect LLC | Remote, USA | Apr 2025 – Jan 2026

- Developed new features and enhanced existing applications, building and maintaining Python backend services using Flask and delivering REST APIs for core application features and third-party integrations. Connected those services to internal data sources and systems, so features worked end to end rather than as isolated endpoints.
- Worked with the technical team to understand what a feature should do and what to build next, in an Agile pattern, reviewing solutions with the team and supporting releases. Documented APIs and deployment workflows, so how the system works was written down for the next person, not only held in one person's head.
- Worked on SQL and schema design in MySQL and PostgreSQL, including data modeling for application features and query work to support the APIs above. Reviewed data changes alongside code changes.
- Tested, debugged, and supported existing applications in production, diagnosing and resolving defects by analyzing logs and debugging backend services, reducing recurring issues and improving stability.

Software Developer — AirFi.in | Hyderabad, India | Jan 2021 – Jun 2023

- Developed front-end and back-end code for web applications, building responsive features (JavaScript, HTML, CSS) and Python backend API endpoints, integrating frontend components with server-side logic.
- Designed relational database schemas and wrote SQL for reporting, so application data could be queried and reported on reliably. Worked on schema changes alongside feature changes.
- Developed and enhanced internal applications, automating data-processing workflows with Python scripts, reducing manual data cleanup efforts.
- Supported existing applications in production, investigating user issues through the application and data layers.

AI & AUTOMATION PROJECTS

- **Multimodal AI Assistant for Telegram —** An LLM-backed n8n assistant integrating OpenAI (GPT-4, Whisper) and Perplexity APIs for transcription, intent routing, summarization, and real-time retrieval.
- **Automated Daily News Intelligence Agent (Discord) —** An LLM-backed agent delivering AI-summarized daily news via scheduled retrieval and GPT-4 summarization.
- **Context-Aware AI Chatbot Workflow —** An LLM-backed chatbot with context-aware, research-backed responses and file-upload support, built with n8n and OpenAI.

EDUCATION

M.S., Information Technology — University of Wisconsin–Milwaukee | Dec 2024

Coursework: Machine Learning, Artificial Intelligence, Business Intelligence, Big Data in Business.