

Arjun Marimuthu Senthil Kumar

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Education

George Mason University, Fairfax, VA

Expected Dec 2026

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Operating Systems, Database Systems, Discrete Mathematics

Technical Skills

Languages: Python, Java, JavaScript, SQL

Backend: REST APIs, Django REST Framework, FastAPI, Microservices Fundamentals

Frontend: React, HTML, CSS

Databases: PostgreSQL, Relational Schema Design

Core Concepts: Object-Oriented Design, Data Structures, Algorithms, Operating Systems

Tools: Git, GitHub, Linux

AI Tools: LLM APIs, Prompt Engineering, AI-Assisted Development

Experience

Wayfair AI Automation Externship

Jan 2026 – Present

AI Automation & Analytics Extern

- Engineered Python-based automation pipelines to analyze market and competitor data, reducing manual research effort by **30%**.
- Implemented structured prompt reasoning techniques to decrease LLM response latency by **25%**, accelerating AI-driven insights for supply chain workflows.
- Built interactive dashboards to visualize AI-generated insights, expanding vendor risk data coverage by **65%**.
- Consolidated multi-source datasets into unified analytics pipelines, reducing reporting turnaround time by **25%**.
- Strengthened system reliability by implementing API validation and error handling, mitigating **11 potential vulnerabilities**.

Academic Intern

Jun 2022 – Dec 2023

VIT Chennai

- Developed and tested **30+ Java programs** applying object-oriented principles and clean coding practices.
- Solved **20+ data structure and algorithm problems** involving arrays, strings, hash maps, and recursion.
- Optimized and debugged programs to improve correctness, performance, and maintainability under academic deadlines.

Projects

Internship & Job Application Tracker

- Developed **7 REST API endpoints** using Python and Django REST Framework to support filtering, sorting, and status tracking for **100+ applications**.

- Designed normalized relational schemas and API integrations, reducing debugging time by **30%** through structured logging.
- Integrated **5 data sources** into a unified data store, decreasing report generation time by **25%**.
- Modularized backend services, enabling **15% faster feature integration** during iterative development.

AI Resume Evaluation Tool

- Automated resume evaluation workflows using Python and LLM APIs, identifying the **top 5 recurring improvement areas**.
- Reduced manual resume review time by **30%** through structured scoring and rule-based evaluation.
- Improved system robustness by enforcing strict input validation and exception handling.

Document Question Answering System

- Designed a document-based Q&A system using vector similarity search and LLM-generated responses across **850+ documents**.
- Reduced query latency by **150ms** by modularizing retrieval and response-generation components.