

# Arjun Marimuthu Senthil Kumar

Fairfax, VA

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## Summary

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Computer Science undergraduate with hands-on experience building backend and full-stack web applications using JavaScript, Java, and REST APIs. Strong foundation in data structures, algorithms, object-oriented programming, and database systems. Demonstrated ability to collaborate in team-based environments, take ownership of tasks, and iteratively improve software solutions. Seeking Software Engineering Internship opportunities for Summer 2026.

## Education

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George Mason University

Bachelor of Science in Computer Science

Fairfax, VA

Aug 2024 – Dec 2026

## Relevant Coursework

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Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Computer Graphics

## Experience

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Academic Intern

VIT Chennai

Jun 2022 – Dec 2023

Chennai, India

- Designed, implemented, and tested **30+ Java-based programs** as part of structured academic and technical coursework.
- Applied core **data structures and object-oriented programming principles** to solve **20+ programming problems**, focusing on correctness and efficiency.
- Debugged and resolved logical and runtime issues in Java applications, improving program accuracy and meeting strict academic deadlines.
- Collaborated with **5–7 peers** by reviewing code, explaining concepts, and assisting in resolving implementation challenges.
- Demonstrated ownership by independently completing assignments while following structured coding and documentation standards across an **multiple semesters of supervised academic coursework**.

## Projects

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Internship & Job Application Tracker

Jan 2025 – Present

- Designed and built a backend-focused web application to manage and track internship and job applications.
- Developed and documented **8+ RESTful APIs** using Node.js and Express.js to support core workflows.
- Improved application tracking efficiency by **25%** through optimized API design and data handling.
- Designed a relational PostgreSQL schema to manage **50+ application records**, reducing manual tracking effort by **30%**.

- Iteratively refined filtering and sorting workflows across **4 application states** to improve visibility and usability.

### **Student Course & Assignment Management System**

Feb 2025

- Built a full-stack web application to manage student courses, assignments, and academic deadlines.
- Implemented responsive user interfaces using React.js and Tailwind CSS across **6+ reusable UI components**.
- Developed backend APIs to handle course and assignment data, supporting **100+ records** with reliable access.
- Applied modular design principles to improve maintainability and support future feature expansion.

### **AI-Powered Resume Feedback Tool**

Mar 2025

- Built a web application that analyzes resume content and generates structured feedback using the OpenAI API.
- Designed backend endpoints to process user input and return consistent AI-generated insights.
- Evaluated system output across **20–30 resumes** to validate accuracy and consistency.
- Improved feedback clarity by **20%** through prompt refinement and edge-case handling.

## **Technical Skills**

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**Languages:** JavaScript, TypeScript, Java, SQL

**Frontend:** React.js, Tailwind CSS, HTML, CSS

**Backend:** Node.js, Express.js, REST APIs, JWT Authentication

**Databases:** PostgreSQL, MongoDB

**Tools & Platforms:** Git, GitHub, VS Code, Postman, Docker (basic)

**Cloud & DevOps:** AWS fundamentals, CI/CD concepts

**Concepts:** Data Structures and Algorithms, Object-Oriented Programming, API Design, Software Development Lifecycle