

ASWATH KARUNAKARAN

SOFTWARE ENGINEER

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PROFESSIONAL ASPIRATIONS

Highly motivated Software Engineer with 1 year of professional experience, passionate about leveraging innovative solutions to solve complex real-world problems. Eager to contribute to dynamic teams focused on rapid development and delivering high-quality, impactful results, potentially by integrating cutting-edge approaches like AI to accelerate solution delivery.

PROFESSIONAL EXPERIENCE

- MEMBER OF TECHNICAL STAFF - Zauto AI****Jan 2025 - May 2025**
- Spearheaded the development of AI-powered solutions for healthcare and hospital management, leveraging prompt crafting, Vector Databases, and Retrieval Augmented Generation (RAG) concepts.
 - Utilized NestJS to build robust backend services for LLM-powered functionalities, including summary generation, image extraction, and real-time messaging/audio chat via WebSockets.
 - Managed complex asynchronous state in React applications using Redux Saga for seamless user interactions.
 - Contributed to front-end development using Angular, ensuring a consistent and responsive user experience.
- JUNIOR SOFTWARE ENGINEER - Techbeeshive Technologies****June 2024 - Feb 2025**
- Orchestrated the end-to-end development of scalable e-commerce and billing system web applications, significantly enhancing user engagement and optimizing overall system performance.
 - Streamlined backend services by proactively optimizing API performance and dramatically improving response times for critical functionalities within these systems.
 - Elevated front-end user interfaces, leading to improved accessibility and a superior overall user experience for e-commerce and billing platforms.
 - Optimized complex database queries and refined server-side logic, resulting in faster data retrieval speeds and enhanced system scalability for transactional systems.

TECHNICAL SKILLS

Programming Languages	Back-End FrameWorks	Front-End	AI/ML Concepts	Tools/Other	DataBases
<ul style="list-style-type: none">TypescriptJavascriptPhp	<ul style="list-style-type: none">NestJsNode.JsLaravel	<ul style="list-style-type: none">NextjsReactAngular	<ul style="list-style-type: none">Prompt EngineeringRAGFine-tuning	<ul style="list-style-type: none">Websocket'sREST API'sAJAXGitDSA	<ul style="list-style-type: none">PostgresqlMySQLVector Databases

EDUCATION

BACHELOR OF TECHNOLOGY Information Technology, Adhiyamaan college of Engineering,**2020 - 2024**

Cumulative GPA: 8/10

LEADERSHIP & ACTIVITIES

- JOINT SECRETARY (2023-2024), Executive Member (2022-2023) and Volunteer (2021-2022)****IETE Student's Forum | Adhiyamaan college of Engineering**
- Spearheaded the organization and management of technical workshops and events for over 100 students, enhancing practical skills and knowledge sharing.
 - Coordinated inter-departmental initiatives to promote technical awareness and foster student engagement.