

# Ashwin V

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## PROFESSIONAL SUMMARY

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Full Stack Developer with experience in building scalable web and mobile applications using React, Next.js, FastAPI, and Flutter. Skilled in Generative AI, Large Language Models (LLMs), and Retrieval-Augmented Generation (RAG). Strong expertise in performance optimization, RESTful APIs, and cloud deployment using AWS and Docker.

## EDUCATION

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**Vellore Institute of Technology (VIT)**

Vellore, India

MTech (Integrated) in Computer Science and Engineering (CGPA: 8.34)

Aug 2022 – Jul 2027

## EXPERIENCE

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**Web Developer Intern**

Oct 2024 – Jan 2025

*Sentinel GuardAI*

Remote

- Designed and developed scalable, high-performance web applications using Next.js, React.js, and Astro, improving Core Web Vitals and reducing page load time by 25%.
- Enhanced server-side rendering (SSR), routing, and caching strategies, reducing server response time by 40% and improving application scalability.
- Built reusable UI component libraries from Figma designs, accelerating development speed by 30% and ensuring design consistency.

## PROJECTS

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**SEO-Optimized Blog Platform** | *Next.js, SEO, Vercel, MongoDB* |

- Developed an SEO-optimized blog platform using Next.js with server-side rendering (SSR), Incremental Static Regeneration (ISR), and secure authentication using NextAuth. Integrated MongoDB for scalable data storage and optimized metadata for search engine ranking.
- Boosted SEO rankings by 25% by deploying server-side rendered components on Vercel. Improved page performance and accessibility through responsive layouts and metadata optimization.

**Real-Time Food Ordering System (QuickBite)** | *React.js, Express.js, MongoDB, WebSockets, JWT* |

- Engineered a full-stack food ordering system featuring WebSockets for real-time updates and a custom admin panel, streamlining order management and secure authentication via REST APIs.
- Followed MVC architecture and modular design patterns, improving code maintainability and scalability.
- Refined frontend performance by 40% through lazy loading and React Context, while optimizing database queries to ensure sub-second response times during high-volume data retrieval.

**Letterboxd** | *Flutter, Firebase, REST APIs* |

- Designed a cross-platform movie app using Flutter and Riverpod, using Firebase to achieve sub-second real-time data synchronization across Android and iOS.
- Elevated app responsiveness by 30% using offline caching and custom animations to ensure smooth 60 FPS performance on both iOS and Android.

**Xcrumino (Project Management App)** | *Next.js, FastAPI, TanStack Query, Prisma, Zustand* |

- Engineered a scalable full-stack project management system supporting team collaboration; improved performance by 40% using TanStack Query for efficient data fetching and caching, reducing API load.
- Accelerated state management using Zustand, reducing re-renders by 30% and enhancing UI responsiveness; architected FastAPI backend with Prisma ORM, lowering database query latency by 35% and improving system efficiency.

## TECHNICAL SKILLS

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**Programming:** JavaScript/TypeScript, Python, Java, C/C++

**Frontend Development:** React.js, Tailwind CSS, Next.js, TanStack Query, Zustand

**Mobile Development:** Flutter, React Native

**Backend Development:** Node.js, Express.js, FastAPI, Prisma, PostgreSQL, Firebase, MongoDB, WebSockets

**AI/ML:** Generative AI, Large Language Models (LLMs), LangChain, LangGraph, CrewAI, Retrieval-Augmented Generation (RAG), Prompt Engineering, Model Context Protocol (MCP)

**DevOps & Cloud:** AWS(EC2,S3), Docker, GitHub Actions, Vercel, Netlify, Firebase Hosting

## CERTIFICATIONS

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- **Udemy:** Flutter & Dart - The Complete Guide
- **Udemy:** React Native - The Practical Guide
- **Udemy:** React, NodeJS, Express & MongoDB - The MERN Fullstack Guide,
- **Coursera:** Generative AI with Large Language Models