Suhaas Rao Badada

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Summary

Full-stack Software Engineer skilled in FastAPI, Next.js, ASP.NET MVC, and Angular with hands-on experience through internships, research work, and projects. Experienced in building scalable APIs, microservices, and data-driven applications that deliver real-world impact. Winner of multiple hackathons and a member of Indiana University's startup incubator.

Education

Indiana University Bloomington   Bloomington, IN, USA
M.S. Computer Science (GPA – 3.95 / 4.0)   08/2024 – 05/2026
Associate Instructor for Computer Networks

Vellore Institute of Technology   Vellore, TN, India
Bachelors in Computer Science (GPA – 8.69 / 10)   07/2019 – 05/2023

Experience

Indiana University Bloomington   Bloomington, IN
Graduate Research Assistant (Software Development, Data & AI)   07/2025 – Present

- Engineered **Indiana Toxicity Watch**, a full-stack geospatial data visualization platform (Python, Flask, PostgreSQL, AWS) that aggregates, processes, and maps environmental data across 90+ counties, enabling proactive public health policy decisions.
- Developed interactive **PowerBI dashboards** with **DAX queries** to analyze chemical incidents and exposure metrics, identifying high-risk industrial zones and reducing data analysis time by **70%**.
- Developed an **LLM-powered chatbot** using **LangChain** and **Azure OpenAI** to provide real-time, contextual insights on environmental toxicology data, improving researcher accessibility to complex datasets.

Becton Dickinson   Bengaluru, India
Software Engineering Intern   01/2023 – 06/2023

- Built **a microservices-based recommendation engine** (C#, .NET, SQL Server) that processed user behavior data, implementing **collaborative filtering algorithms** to personalize product suggestions and increase campaign conversion rates by **25%**.
- Designed and implemented **robust ETL pipelines** with SQL Server Integration Services **(SSIS)** to ingest and unify data from 5+ disparate sources improving data consistency and availability for analytics by 99.5%.
- Implemented a **"Next Best Action" decisioning engine** within the .NET API, leveraging user session data to dynamically serve personalized content, resulting in a **20% uplift** in user engagement**,** leading to **increased sales**.

Software Engineering Intern   05/2022 – 07/2022

- Developed a secure internal web portal using **ASP.NET MVC** and **JavaScript** that featured a **dynamic SQL query builder**, allowing administrators to perform complex, self-service data analysis on formulary databases and reducing report generation time by **30%**.
- Contributed to an Agile team by developing features in **C# and SQL Server**, participating in sprint ceremonies, and collaborating with developers based in US/Europe via **Azure DevOps** to ensure timely feature delivery.

Skills

Languages: C++, Python, C#, Java, Typescript, PHP
Frameworks: FastAPI, Flask, LangChain, ASP.NET, Angular, Next.js
Database: PostgreSQL, MongoDB, Firebase, Supabase
Tools: Git, AWS, Azure ML Studio, PowerBI, SQL Server Management Studio, Docker, Kubernetes

Projects

MailMart – Smart Email Storefront (Entrepreneurial Project) (FastAPI, Next.js, PostgreSQL)

- Spearheading **full-stack development** of a smart promotional email curation platform, to declutter inboxes.
- Driving product strategy by conducting continuous market analysis and user research to validate features and ensure market fit.

VocabCards – Personalized vocabulary learning platform (Angular, ASP.NET Web API, SQL, Azure, Firebase, SSMS)

- Engineered a **gamified** vocabulary platform in Angular, supporting progress tracking, spaced repetition, and leaderboards.
- Developed **scalable backend APIs** in ASP.NET integrated with SQL Server, Azure, and Firebase.
- Achieved **30% weekly user growth** by implementing gamification features.

InnovAIte – AI-powered innovation portal (LangChain, OpenAI API, Flask, Next.js, PowerBI) | **Sponsored by ServiceNow**

- Built an AI platform that automates evaluation and prioritization of the organization's idea pipeline using ReAct reasoning.
- Integrated **multi-agent** evaluation (LangChain + OpenAI APIs) for contextual scoring and recommendation of ideas.
- Delivered **PowerBI dashboards** to track adoption, performance, and ROI of innovation pipelines.