

Abhinandan Mohan Raj

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Education

The University of Texas at Dallas	Aug 2018 - May 2020
<i>Master of Science in Business Analytics (GPA: 3.91 / 4.00)</i>	Dallas, Texas
Anna University	May 2011 - May 2015
<i>Bachelor of Engineering in Electronics and Communication (GPA: 3.62 / 4.00)</i>	Chennai, India

Technical Skills

Languages: Java, C-Sharp, JavaScript, TypeScript, Python, Scala

Frameworks: React.js, Angular, Spring Boot, ASP.NET, .NET Core

Technologies: Azure, AWS, NoSQL, EC2, AWS CodePipeline, Redis Cache, Service Bus, RabbitMQ, Docker, Kubernetes, Terraform, Zookeeper, CI/CD, Microservices, Git, Agentic AI, LLMs

Experience

Microsoft	Oct 2024 – Present
<i>Software Engineer 2, CFAR Platform</i>	Redmond, WA

- **Architected and deployed a domain verification AI agent** using the Semantic Kernel framework, automating **90% of verification cases** and reducing manual **review time by 70%**, significantly increasing operational throughput and accuracy.
- **Engineered a cross-functional Document Analyzer Agent** that integrated seamlessly with existing business verification pipelines to analyze sensitive corporate data; optimized organizational bandwidth by **eliminating 1,500 hours of manual intervention**
- Engineered a scalable, **asynchronous end-to-end email notification system** for real-time detection of BV/DV failures in gateway requests, utilizing Azure Service Bus for message queuing and WebJobs for streamlined processing—ensuring reliable delivery of **5,000+ alerts daily with 99.9% uptime**.
- **Re-engineered the partner vetting workflow** by introducing a standalone middleware service, eliminating architectural bottlenecks and reducing new customer integration time; scaled the system to handle a **300% increase in traffic without performance degradation**.

Microsoft	Feb 2022 – Oct 2024
<i>Software Engineer, Azure Platform</i>	Redmond, WA

- Scaled user experience for **1 million monthly active users (MAU)** on the Engage Hub portal by implementing debounce logic and a global distributed lock, eliminating race conditions and **reducing customer support tickets by 70%**.
- **Designed and deployed an event-driven architecture**, effectively decoupling microservices and enabling the User Management service to scale for **500K active users**. This led to a **60% reduction in response time**, boosting system performance and user responsiveness.
- Enhanced product security through a strategic migration of 12 microservices from AD Graph to the more secure MS Graph. This proactive measure **resolved 48 security bugs**, mitigating potential risks and security vulnerabilities.
- **Reduced data latency by 50%** by implementing **real-time synchronization between Azure Kusto and Cosmos DB** via change feed processing, delivering faster insights and more accurate data for analytical workflows.