

Abhinandan Mohan Raj

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Education

The University of Texas at Dallas <i>Master of Science in Business Analytics (GPA: 3.91 / 4.00)</i>	Aug 2018 - May 2020 Dallas, Texas
Anna University <i>Bachelor of Engineering in Electronics and Communication (GPA: 3.62 / 4.00)</i>	May 2011 - May 2015 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 <i>Software Engineer 2, CFAR Platform</i>	Oct 2024 – Present Redmond, WA
<ul style="list-style-type: none">• 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 <i>Software Engineer, Azure Platform</i>	Feb 2022 – Oct 2024 Redmond, WA
<ul style="list-style-type: none">• 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.	