

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.• Spearheaded the production deployment of the Deny Assignment service, remediating 220K Azure subscriptions through robust CI/CD pipelines and comprehensive unit testing.• Boosted Software Download Service efficiency and decision-making, achieving a 40% reduction in CPU consumption by integrating CFAR algorithms to replace traditional threat metrics.	
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.	
Microsoft <i>Data & Applied Scientist, Office Platform</i>	May 2020 – Feb 2022 Redmond, WA
<ul style="list-style-type: none">• Engineered a Kusto-based Data Correctness (DC) module, seamlessly integrating it with ADF pipelines to bolster data accuracy in business metrics and decrease backfilling by 40%.• Designed and built an optimized ADF pipeline for Office Scripts, effectively managing the surge in Cosmos data from OBD releases and improving client-dependent function runtime by 30%.	