

# Abhinandan Mohan Raj

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## Education

<b>The University of Texas at Dallas</b> <i>Master of Science in Business Analytics (GPA: 3.91 / 4.00)</i>	Aug 2018 - May 2020 Dallas, Texas
<b>Anna University</b> <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, Azure Kubernetes, Terraform, CI/CD, Microservices, Git

## Experience

<b>Microsoft</b> <i>Software Engineer 2, CFAR Platform</i>	Oct 2024 – Present Redmond, WA
<ul style="list-style-type: none"><li>• Drove a <b>70% reduction in human review time</b> and automated 90% of verification cases by architecting and implementing a <b>domain verification AI agent</b> using the Semantic Kernel framework.</li><li>• Spearheaded the production deployment of the Deny Assignment service, <b>remediating 220K Azure subscriptions</b> through robust CI/CD pipelines and comprehensive unit testing.</li><li>• Boosted Software Download Service efficiency and decision-making, achieving a <b>40% reduction in CPU consumption</b> by integrating CFAR algorithms to replace traditional threat metrics.</li></ul>	
<b>Microsoft</b> <i>Software Engineer, Azure Platform</i>	Feb 2022 – Oct 2024 Redmond, WA
<ul style="list-style-type: none"><li>• Scaled user experience for <b>1 million monthly active users (MAU)</b> on the Engage Hub portal by implementing debounce logic and a global distributed lock, eliminating race conditions and <b>reducing customer support tickets by 70%</b>.</li><li>• <b>Designed and deployed an event-driven architecture</b>, effectively decoupling microservices and enabling the User Management service to scale for 500K active users. This led to a <b>60% reduction in response time</b>, boosting system performance and user responsiveness.</li><li>• Enhanced product security through a strategic migration of 12 microservices from AD Graph to the more secure MS Graph. This proactive measure <b>resolved 48 security bugs</b>, mitigating potential risks and security vulnerabilities.</li><li>• <b>Achieved a 50% improvement in data latency</b> through the implementation of real-time data synchronization between Kusto and Cosmos DB using change feeds. Additionally, streamlined infrastructure provisioning for data analysis by automating Kusto cluster and database deployments with ARM templates.</li></ul>	
<b>Microsoft</b> <i>Data &amp; Applied Scientist, Office Platform</i>	May 2020 – Feb 2022 Redmond, WA
<ul style="list-style-type: none"><li>• Engineered a Kusto-based Data Correctness (DC) module, seamlessly integrating it with ADF pipelines to bolster data accuracy in business metrics and <b>decrease backfilling by 40%</b>.</li><li>• Designed and built an optimized ADF pipeline for Office Scripts, effectively managing the surge in Cosmos data from OBD releases and <b>improving client-dependent function runtime by 30%</b>.</li></ul>	