

Abhinandan Mohan Raj

☎ 512-698-3345 ✉ abhimrnanandan@gmail.com 💼 [linkedin.com/abhinandan-mohanraj](https://www.linkedin.com/abhinandan-mohanraj)
🐙 github.com/abhi3047

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, Azure Kubernetes, Terraform, CI/CD, Microservices, Git

Experience

Microsoft <i>Software Engineer 2, CFAR Platform</i>	Oct 2024 – Present Redmond, WA
<ul style="list-style-type: none">Architected and implemented a domain verification AI agent leveraging the Semantic Kernel framework, reducing human review time by 70% and automating 90% of all verification cases.Led the successful production deployment of the Deny Assignment service, building robust CI/CD pipelines and incorporating unit testing to remediate 220K Azure subscriptions.Enhanced Software Download Service's efficiency and decision-making by successfully integrating CFAR, allowing a transition from threat metrics to CFAR's algorithms and achieving a 40% reduction in CPU consumption.	
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 MAU on the Engage Hub portal by implementing debounce logic and global distributed lock on the provisioning service. This eliminated race conditions during provisioning and reduced customer support tickets by 70%Implemented an event-driven architecture, decoupling microservices and enabling User Management service to scale efficiently for 500K active users. This resulted in a 60% reduction in response time, improving user responsiveness and overall system performance.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.Achieved a 50% improvement in data latency by implementing real-time data synchronization between Kusto and Cosmos DB using change feeds. Automated Kusto cluster and database deployments with ARM templates, streamlining infrastructure provisioning for data analysis.	
Microsoft <i>Data & Applied Scientist, Office Platform</i>	May 2020 – Feb 2022 Redmond, WA
<ul style="list-style-type: none">Developed Data Correctness (DC) module in Kusto and integrated it with our existing ADF pipelines to ensure data accuracy in our business metrics and reduced backfilling by 40%.Designed and developed an optimized ADF pipeline for Office Scripts, to handle the Comsos data uptick due to OBD releases. The improved pipeline reduced the runtime of client dependent functions by 30%.	