

MAYANK AGGARWAL

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Portfolio

EDUCATION

Vellore Institute of Technology, Vellore <i>Bachelor of Technology in Computer Science</i>	May 2015 – May 2019 CGPA: 8.50
Vivekanand School, Delhi <i>Class: XII(CBSE) & Class: X(CBSE)</i>	March 2015 & March 2013 Score: 91.50% & CGPA: 10

EXPERIENCE

Microsoft, Azure Sept. 2025 - Present
Senior Software Development Engineer Hyderabad, India

- Currently building resiliency capabilities with backup and disaster recovery for **Azure Cosmos DB**, ensuring enterprise-grade data protection and business continuity for mission-critical workloads.
- Led **Azure BCDR** engineering team for AKS in designing and delivering enterprise grade GA (General Available) Data Protection solution for **Azure Kubernetes Service** ensuring robust backup and disaster recovery capabilities for critical workloads. Actively contribute to **Velero** open source project (CNCF) for Kubernetes backup and disaster recovery.
- Onboarded Fortune 500 enterprise customers and supported more than a **million** backups with SLA of **99.99** for backup and restore with SLA of **100**. Presented the Azure AKS BCDR solution in **KubeCon Europe Paris** 2024 engaging with over **15000** attendees which was hosted by **Linux Foundation**.

Microsoft, Azure June 2019 – Sept. 2025
Hyderabad, India

Software Development Engineer 1 & 2

- Built out the abstraction in the control plane, delivering the highly distributed and scalable **Service Fabric** microservice from the ground up. Led the development of the core **Workflow State Machine**, enabling seamless integration of workload plugins such as Azure Disk and AKS for long-running backup and restore workflows.
- Led and mentored interns on the integration of **Distributed Redis cache** in the management plane to optimize performance, resulting in significant latency reduction by 30%.
- Implemented and delivered the foundational **Resource Move** capability for Azure BCDR, enabling customers to efficiently migrate Azure resources at scale across subscriptions and tenants during large-scale migrations.
- Developed a manifest-driven, dynamic user interface feature for the Azure BCDR Portal using TypeScript, enabling scalable UI architecture and seamless onboarding of multiple workloads without requiring code changes.
- Worked for onboarding **backup vault service** to secure government Azure cloud for China and United States.

SKILLS

Languages: C++, C#, Golang, .NET, Java, Python, Flask, NodeJS, Bash

Cloud, Infrastructure: Azure, Kubernetes, Docker, AWS

Databases: SQL, MongoDB, Azure Table, Blob, Fileshares, Firebase

Mobile and Web: Android, ReactJS, ExpressJS, AngularJS, HTML5/CSS3, Typescript, JavaScript, JQuery, Bootstrap

PROJECTS

Gardianscale — Next-Gen CI/CD Platform [Project Link](#)

- Built a next-generation CI/CD platform with intelligent elastic caching (Node, Docker, Java, Python) and automatic infrastructure provisioning using **Kubernetes, Docker, and Go**, accelerating builds by up to **50x** with zero configuration and providing **4x** faster cache performance through intelligent caching mechanisms.

VIT GO — Android Application [**Project Link**](#)

- Developed high traffic Android App with over **33K** users with over **100K impressions** per day which aims to bring every academic details on their fingertips. It displays all the academic information for students and with a lot of customize features. This app also **ranked 3rd** in productivity category in India on Google Play Store.

EDGE.FIT — AI Gym Trainer

[Project Link](#)

- It is a virtual personal fitness trainer which uses **Computer vision**, and Intelligent Edge and Cloud computing to help users achieve their fitness goals efficiently.

ACHIEVEMENTS

Microsoft Garage Hackathon: 1st/85 teams. [Link](#)
NASA SpaceAppChallange'17: 18th/105 globally in world. [Link](#)
Apple Developers Group, App-A-Thon'17: 2nd/100 teams. [Link](#)
Google Developers Hackathon - Devfest'16: Platinum Prize Winners. [Link](#)

SOCIETIES