Mayank Aggarwal

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EDUCATION

Vellore Institute of Technology, Vellore   May 2015 – May 2019
Bachelor of Technology in Computer Science   *CGPA: 8.50*

Vivekanand School, Delhi   March 2015 & March 2013
Class: XII(CBSE) & Class: X(CBSE)   *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
Software Development Engineer 1 & 2   *Hyderabad, India*
- 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

Google Developer Group, Team Sammard, Creation Labs, IEEE-CS