

## Sujata Bapu Bhagat

Azure HPC Performance Engineer

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### PROFESSIONAL SUMMARY

Azure HPC Engineer with 3.5+ years of experience in deploying, benchmarking, and validating HPC applications on Microsoft Azure platforms. Expertise in configuring Azure Virtual Machines, multi-node clusters, and CycleCloud deployments. Proficient in optimizing cloud resources for performance and cost efficiency. Collaborative and solutions-driven, with strong leadership and technical documentation skills. Looking for new opportunities to drive impactful projects in high-performance computing (HPC) and cloud infrastructure.

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### CORE COMPETENCIES

- **Cloud Platforms:** Azure Virtual Machines, Azure CycleCloud, Azure HPC Architecture
  - **High-Performance Computing:** Multi-node Clusters, Parallel Computing, HPC Benchmarking
  - **Scripting & Tools:** Slurm, GitHub, Python (Basic), MPI
  - **Operating Systems:** Linux, Windows Server
  - **Cloud Infrastructure:** Azure Monitor, Azure Virtual Desktop (AVD), Infrastructure as Code, Virtual Networks, Storage
  - **Soft Skills:** Leadership, Team Collaboration, Mentoring, Technical Documentation
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### PROFESSIONAL EXPERIENCE

Capgemini, Pune

**Professional Engineer (Associate Consultant)** | *October 2023 – Present*

**Project:** Microsoft Azure HPC Application Certification

- Collaborating with Microsoft (Project Owner), NVIDIA, and AMD for HPC application validation on Azure.
- Validated 100+ applications for the Microsoft Azure Architecture Center (AAC).

- Developed and implemented an advanced framework using Azure Solution Architecture for high-performance workloads.
- Led the creation, customization, and management of HPC clusters on Azure CycleCloud.
- Key responsibilities:
  - Identifying optimal compute and storage solutions for cloud-based workloads.
  - Ensuring proper resource management and optimization for cloud environments.
  - Securing infrastructure and optimizing applications for Azure.
- **Key Achievements:** Authored 15+ HPC deployment guides for large-scale applications, including CPFD Barracuda, Remcom XFtdt, Autodesk Maya, and Ansys Fluent, which are published on Microsoft's Azure Architecture Center (AAC).

### **Capgemini, Pune**

#### **Associate 2 | Cloud Engineer** | *April 2023 – October 2023*

- Evaluated and recommended improvements for existing cloud infrastructures, resulting in enhanced performance and reduced operational costs.
- Implemented cloud architecture that increased software efficiency by over 80% compared to on-premises platforms.
- Collaborated closely with cross-functional teams to facilitate the easy adoption and management of Azure platforms for clients.

### **Capgemini, Pune**

#### **Associate 1 | Cloud Engineer** | *July 2021 – April 2023*

- Installed, configured, and tested design, scientific, and third-party software on Azure Virtual Machines and clusters, ensuring seamless functionality.
- Wrote and reviewed technical documentation in alignment with template requirements.
- Managed server-based engineering applications running on both Linux and Windows OS servers.

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## **EDUCATION**

- **Bachelor of Mechanical Engineering** | Solapur University | 2016 – 2020  
**CGPA:** 9.08/10
  - **Product and Tool Design Training** | CADCAMGURU Training Campus, Pune |  
*October 2020 – June 2021*
    - Specialized in CAD/CAM tools and techniques.
  - **Certified CATIA V5** | CADD Centre Training Centre, Pune
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## CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals (AZ-900)**
  - **Certified by Capgemini - WOW Award**
  - **Winner, C2D GURU Competition** | CADCAMGURU Pune
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## LANGUAGES

- English (Fluent)
  - Hindi (Fluent)
  - Marathi (Native)
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## ADDITIONAL INFORMATION

- **Publications:** Authored multiple HPC deployment guides on Microsoft Azure Architecture Center (AAC).
- **Leadership:** Led and mentored cross-functional teams in deploying complex cloud infrastructures for high-performance workloads.
- **Collaborations:** Worked closely with Microsoft, NVIDIA, and AMD on various HPC validation projects.