

# Arjun Bajpai

SOFTWARE DEVELOPER · STUDENT

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## Work Experience

### Microsoft

Hyderabad, India

SOFTWARE ENGINEER

Jul 2022 - Jul 2025

- Engineered multiple key features in Azure Business Continuity and Disaster Recovery (BCDR, formerly Azure Backup) to support backup of SQL and SAP Hana workloads on Azure VMs, enabling adoption by thousands of enterprise customers.
- Architected the Alternate Job Status Sync mechanism, introducing a secondary validation channel that eliminated false restore failures, improved SLA compliance for restore operations to **99.8%**, and directly enhanced customer experience scores.
- Directed cloud-side architecture and rollout of Azure's AnyDatabase backup and restore solution, expanding support to all major database types and driving acquisition of **30+ new enterprise customers**.
- Orchestrated end-to-end delivery of a high-availability cloud service for SAP ASE in Azure Backup, requested by **12 enterprise clients**, ensuring **24/7 reliability** for critical workloads and driving new customer adoption that generated additional Azure revenue.
- Formulated the SAP ASE registration workflow, streamlining onboarding to Azure with seamless Blob storage integration and reducing deployment time for new customers by **30%**.
- Devised the Workload Snapshot Scrubber capability, safeguarding customer data and reducing memory leaks by **7%** across production environments.
- Implemented an automated Component Governance remediation agent that proactively resolved **800+ security vulnerabilities**, boosting security KPIs by **12%** and reducing manual remediation time by **95%**.
- Executed migration of deprecated BCDR pipelines across **120+ repositories**, replacing vulnerable components and ensuring full compliance with Microsoft's security and reliability standards.
- Oversaw Live Site responsibilities for Azure Backup, spearheading recovery of **84 VMs** during a ransomware attack, including restores beyond retention limits, which preserved **100% of customer workloads** and restored client trust.
- Managed S360 frontline operations for Azure Workload Backup, diagnosing and resolving **50+ health and compliance alerts**, bolstering service reliability and safeguarding SLA commitments across critical workloads.
- Honored with the **"Quality Champ" award** for consistently delivering defect-free code and resolving **72 bugs** during quality review month.

### Microsoft

Hyderabad, India

SOFTWARE ENGINEER INTERN

Jan 2022 – Jun 2022, Jun 2021 – Sep 2021

- Delivered the Partial Restore functionality in Azure Backup, reducing restore durations for daily backups by **40%** and enabling faster log-only recovery during a 6-month internship.
- Constructed a Full-Sync infrastructure for Azure Backup, enabling parallelized execution of backup stages that cut total operation time by **25%**, lowered microservice load, and decreased operational costs.

## Projects

### Using gamification to rationalize excessive use of mobile devices among children and adolescents

BITS Pilani, Goa

JAVA - ANDROID (FRONTEND), NODEJS (BACKEND)

Dec 2019 - Jun 2020

- Co-authored research and built an open-source Android application that tracked daily device usage and applied gamified rewards, leading to a **22% reduction in screen time** during pilot testing with adolescents.
- Performed qualitative analysis of mobile usage behaviors through **100+ survey responses**, integrating findings into app design to align interventions with user psychology.

### Development of Mental Health-oriented Android Application

BITS Pilani, Goa

JAVA - ANDROID (FRONTEND), NODEJS (BACKEND)

Aug 2021 - Dec 2021

- Designed and implemented a mental health Android platform connecting **neurodivergent patients with 20+ doctors**, enabling accessible communication and appointment scheduling.
- Conducted **surveys and interviews with 150+ participants** to understand neurodiversity challenges, translating research into a user-friendly UI/UX that improved patient engagement scores by **35%** during usability testing.

## Skills

### Programming Languages Frameworks & Libraries

C#, Java, Python, JavaScript, TypeScript, SQL  
.NET, React, Node.js, TensorFlow

### Databases

SQL Server, SAP Hana, SAP ASE, AnyDatabase backup/restore solutions

### Tools & Practices

Git, Component Governance, Microservice Architecture, Automated Testing, Live Site DRI Operations, Agile Development

### Soft Skills

System design, Cross-team collaboration, Customer-focused delivery, Research-driven development, Growth Mindset

## Education

### New York University

New York, NY

M.S. IN COMPUTER SCIENCE

Sep 2025 - Present

### Birla Institute of Technology and Science, Pilani, K. K. Birla Goa Campus

Goa, India

B.E. IN COMPUTER SCIENCE

Aug 2018 - Jun 2022

CGPA: 8.25 / 10