Sagar Mandal

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# Experiences

## Software Engineer | Microsoft | Jul 2020 – Present

### Application Provisioning | Jul 2024 – Present

Working on the Identity Provisioning Service:

* Design, develop, and maintain globally distributed identity provisioning service synchronizing millions of identities per day.
* Lead the development and validation of new third-party SCIM API-based connectors for inclusion in Entra.
* Build and maintain front-end with approximately 100,000+ daily active users.
* Lead the privacy and EU regulatory compliance efforts for all services managed by the group.
* Evangelize the use of AI tools to improve developer productivity including creating MCP and search indexes for internal documentation and libraries for coding agent consumption.  
  **Skills**: Azure Services, CosmosDB, C#, .NET, Typescript, SCIM

### Hybrid Identity Team and Provisioning Logs | Jul 2020 – Jun 2024

Worked on the Hybrid Identity and Provisioning Logs services:

* Maintained globally deployed services that process 2+ billion events per day. These services help enterprises monitor their on-premises identity infrastructure and identity synchronization.
* Developed UI components for front-end with 30k+ daily active users.

**Skills**: Azure Services, Kafka/ Eventhub, CosmosDB, C#, .NET, Typescript

## Software Engineer | Varian Medical Systems | Jul 2018 – Jul 2020

Worked on the Velocity Imaging Informatics software:

* Designed and implemented image processing and dosage calculation algorithms for treatment planning.
* Built a cloud-hosted service which helped oncologists work with medical images.

**Skills**: C++, DICOM, SQL, Kubernetes, ITK, Python, Terraform, AWS/ Azure Services

# Skills

**Languages and Frameworks**: C#,Python**,** C++**,** Java**,** SQL, Typescript, Javascript, Go, React, Next.Js

# Education

## Georgia Institute of Technology

### Bachelor of Science in Computer Engineering | 2014 – 2018 | GPA: 3.25 (Honors, Dean’s List)

# Projects

## Technical Lead | Georgia Tech Senior Design Team | Aug 2017 – May 2018

* Designed and implemented an object detection-based recycle bin which sorts urban/ residential waste.
* Developed a shallow neural network classification model for Raspberry Pi3 which classifies objects with 87% accuracy in 1.3 seconds.

**Skills:** Python, Tensorflow, IoT, Embedded Systems