Sagar Mandal

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# Experiences

## Software Engineer 2 | Microsoft | Jul 2020 – Present

Work in the Hybrid Identity and Provisioning team at Microsoft. My work involves:

* Maintaining globally deployed services that process ~2+ billion events per day. These services help enterprises monitor their on-premises Identity Infrastructure and Identities synchronization with cloud.
* Architecting and building out features to optimize the services and meet customer needs.
* Developing UI components for front-end with ~30k+ DAU.
* Owning privacy and regulatory compliance for services owned by the team.

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

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

Worked in the Velocity Imaging Informatics team:

* Designed and implemented image processing and dosage calculation algorithms for treatment planning.
* Built out a cloud hosted service which helped oncologists work with medical images on the go.
* Developed and maintained visual and backend components of the imaging software.

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

## Software Engineering Intern | Intuitive Surgical | May 2017 – Aug 2017

* Interned at the Imaging Division of Intuitive Surgical where I developed a software toolset to test and validate image quality of endoscope cameras.

**Skills**: Python, C++, Socket.io, JavaScript

# Skills

**Languages**: C#,Python**,** C++**,** Java**,** SQL, Typescript, Javascript, Go, Azure Data Explorer Query Language

**Tools/ Frameworks**: AWS/Azure Services, Kafka/ Eventhub, Terraform, Angular, TensorFlow, QT, Dotnet

**Instrumentation**: Logic Analyzer, Oscilloscope, FPGA, Microcontrollers, Optical Fiber Splicing

**Languages**: English, Bangla

# Education

## Georgia institute of technology

### Bachelor’s | 2014 – 2018 | Computer Engineering | 3.25 GPA

Graduated with Honors

# Research and Projects

## Team Lead | Georgia Tech VIP Research: Aquabots | Aug 2017 – May 2018

* Led a team of four in developing a 24fps object detection algorithm for a low-powered processor and integrated it with a robotic arm.

### Skills: Python, Tensorflow, Embedded Systems, OpenCV

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

* Designed and implemented an object detection-based recycle bin for sorting trash into separate bins.

Developed a shallow neural network classification model for Raspberry Pi3, achieving 87% accuracy in 1.3 seconds for trash classification.

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