

# SHREYASH SHREEPAD SARNAYAK

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## EDUCATION

### University of Colorado, Boulder

MS in Computer Science

Boulder, CO

Aug 2022 - Now

### PES University

B. Tech Computer Science *GPA: 8.68*

Bengaluru, India

2014 - 2018

Specialization in **Algorithm and Computing Models**

## EXPERIENCE

### Intel Corporation

*Intern*

Remote, US

Sept 2023 - Now

- Building a automation pipeline for processing standard cells at Intel.
- Also working on building a dashboard to manage and show the progress of the standard cells.

### Samsung R&D Institute, Bangalore

*Senior Software Engineer*

Bengaluru, India

March 2020 - July 2022

- Evaluated and tested multiple WebRTC SFUs best suitable for the Sonosync (an Ultrasound remote access platform - <https://www.samsunghealthcare.com/en/SonoSync> ).
- Replaced proprietary WebRTC SFU with an open-source alternative while maintaining backward compatibility across multiple servers.
- Reduced the end-to-end RTT of video/audio communication from ~500ms to less than ~200ms.
- Reduced server deployment cost by around **\$2000** per hospital.
- Supported IT services at the hospital both physically and remotely across continent.
- Deployed the Sonosync platform on Microsoft Azure
- Designed and developed an adapter to integrate open-sourced SFU into the platform.
- Refactored Reactjs frontend to improve the performance. Reduced the load time from 2s to **0.5s**.

### Samsung R&D Institute, Bangalore

*Software Engineer*

Bengaluru, India

July 2018 - March 2020

- Developed the Sonosync platform. Worked on both frontend and backend.
- Redesigned the frontend using Material-UI Library for improved UI/UX experience.
- Designed and Implemented Two-factor authentication (2FA) using Time-based OTP (Java).
- Developed peer-to-peer and SFU-based voice communication in the platform using WebRTC.
- Integrated inhouse Licensing module (C/C++) with Tomcat server using Java Native Interface (JNI).
- Experience in working in collaboration with teams, stakeholders from different time zones.
- Newly added unit test to both frontend and backend, and reached 80% code coverage. Jest with Enzyme for frontend and Junit, TestNG for backend.

### Juniper Networks

*Intern*

Bengaluru, India

Jan 2018 - July 2018

- Developed a plugin for Wireshark to parse and visualize juniper proprietary packets using Lua.

## SKILLS

Languages: Javascript, TypeScript, HTML, CSS, Java, Python, C/C++  
Framework: ReactJS, Nodejs, Webpack, Spring MVC, Apache Tomcat, Django  
Technology: REST API, WebRTC, GraphQL, Docker, Kubernetes, Azure, Google Cloud  
Tools: Git, Jira, VS Code, Eclipse, Maven  
Misc: Linux, Windows, MacOS, Jest, Junit, Circle CI, MS Office

## AWARDS

### Certified Samsung Software Competency - Professional.

Awarded for clearing competency test. Top 15%

Samsung R&D Institute

Jan 2019

### Samsung Citizen Award 2019

Best employee award

Samsung R&D Institute

Dec 2019

### Best product quality award for Sonosync

Awarded for having best code quality metrics

Samsung R&D Institute

2020