

# Sanya Singh

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Software Development Engineer at Amazon Web Services. Passionate about solving problems through programming and designing efficient solutions. Learning and designing with AWS services. Enthusiastic about getting myself familiar with new emerging technologies - AR, VR, Blockchain, Extended Reality, and fusion of Technology & Art.

## EDUCATION

### University of Southern California, USA: Master's in Computer Science (MS CS)

Major: Computer Science [Lenore-Jordan-Martin Scholarship recipient]

May 2021

Coursework: Database Systems, Analysis of Algorithm, Artificial Intelligence, Augmented, Virtual and Mixed Reality, Data Visualization

### Guru Gobind Singh Indraprastha University, India: Bachelor's in technology (B. Tech)

Major: Computer Science and Engineering

June 2019

## WORK EXPERIENCE / INTERNSHIPS

### Amazon (AWS), Seattle, WA, US

(June 2021 – present)

#### Software Development Engineer

- Developed and released SSM Fleet Manager feature “[Processes](#)” – tool to be used as the first step in debugging applications or system properties for EC2 instances. Coded in PowerShell, Bash, Python, TypeScript, React.
- Working in design approaches, testing phases, production code, code reviews, resolving customer issues.

### USC Center for Systems and Software Engineering

(May 2020 – August 2020)

#### Software Engineer Intern – Java Developer

- Worked on the updating of the software – Unified Code Count that has been in the production for over 10 years.
- Optimized UCC-J GUI – added additional functionality through toolbar/iconBar, Extensive code research to fix reporting issues

### Indian Railways Catering and Tourism Corporation (IRCTC), India

(July 2018 – August 2018)

#### IT Intern

- Managed to work on AI-based cameras, deployed via TensorFlow.
- Executed comprehensive test plans for software – RED QUANTA (source code was written in Java)
- Worked in AWS along with VCR and DVR technology and executed live streaming via Wowza Streaming Engine – runs on Amazon EC2

### EI Systems & Technex IIT BHU, India

May 2018 – June 2018)

#### Data Analytics Intern

- Worked on Classification algorithms for the company's dataset and analyzed accuracy score of 95.23% through Neural networks

### Basics Eduventures, India

(January 2018 – March 2018)

#### Web Developer Intern

- Developed and deployed company's websites using different tools and languages.
- Maintained a loading speed of 2.2s and decreased it by 16%.

## PROJECTS

- Helix Chatbot** [<https://github.com/dear-s/Helix-Chatbot>] | [<https://github.com/dear-s/Expo-Snack-X-Helix-Chatbot>]
  - Designed and developed an intelligent chatbot that records a patient's headache and medication taken for it with an Expo app.
  - Chatbot phone number (via Twilio services): 213 320 6669 (Send “hey” for registration process and to start the chatbot)
  - Technologies:** Flask, Python, MySQL, HTML, CSS, React Native, matplotlib, Twilio services, Expo, Dialogflow API
- Foot-Fall** [<https://github.com/dear-s/Foot-Fall>]
  - Collaborated and developed an effective tool for determining how to optimize store layout for better sales, results in 80% of profit.
  - Technologies:** R-Script, Shiny Dashboard, HTML, CSS, Bootstrap
- Some website projects** [<https://github.com/dear-s/RGB-Color-Guessing-Game>]
  - Color Guessing Game:** A simple RGB color guessing game with two modes - Easy and Hard
  - Patatap-Clone:** Practice project developed by using Paper.js and Howler.js libraries. [<https://github.com/dear-s/Patatap-Clone>]
  - To-do-List Website:** A personal To-do List project with basic functionality [<https://github.com/dear-s/ToDo-List>]
  - Technologies:** HTML, CSS, Bootstrap, JavaScript, jQuery, Paper.js, Howler.js
- Interstellar: The Next Move** [<https://github.com/dear-s/INTERSTELLAR>]
  - It predicts the future price of cryptocurrency called Lumen (XLM) or Stellar.
  - Designed a dashboard that consists of graphs depicting growth or downfall of Lumens. Accuracy – above 90%. Applied LSTM
  - Technologies:** Python, Flask, HTML, CSS

## TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, jQuery
- Libraries, Tools & Frameworks:** NodeJS, Paper.js, Howler.js, NumPy, Pandas, Bootstrap, MongoDB, Express, D3.js