# Johanna Smriti

San Francisco, Bay Area

✉ johannasmriti01@gmail.com  📱 +1(408)393-3602  in LinkedIn  🌐 Portfolio  ⭘ GitHub

## Executive Summary

I am Johanna Smriti, a software engineer with a passion for solving complex problems through thoughtful and innovative solutions. My journey includes impactful work in machine learning and data science at IBM, Samsung, NUS, and Fidelity Investments. I am driven by the opportunity to design solutions that address real-world challenges, simplify processes, and create meaningful value.

## Professional Experience

### Fidelity Investments
*Software Engineer* — Feb 2023 - Aug 2024,
- Reduced processing time by 27% through efficient use of AWS Lambda and batch functions, streamlining performance.
- Developed and modernized UI applications with Angular, integrating cloud technologies to enhance system efficiency.

### National University of Singapore
*Deep Learning Intern* — Dec 2022 - Jan 2023,
- Developed a CNN model to detect continuous sign language, aiding individuals with hearing and speech challenges.
- Successfully deployed the model as a Chrome extension, enabling real-time sign language detection during online meetings.

### Samsung R&D
*Deep Learning Intern* — Jul 2021 - Dec 2022,
- Enhanced Quality of Experience (QoE) for a dynamic video streaming system by implementing a real-time Reinforcement Learning (RL) model to optimize adaptive bitrate during bandwidth fluctuations.
- Achieved seamless video streaming and improved user satisfaction by dynamically adjusting adaptive bitrate in response to changing network conditions.

### Tech4Good Labs
*Web Developer* — Jun 2020 - Aug 2020,
- Developed and maintained websites for NGOs, focusing on responsive and user-friendly designs to enhance outreach.
- Led full-stack development using HTML, CSS, JavaScript, and WordPress, ensuring seamless deployment and functionality.

## Notable Projects

### Continuous Sign Language Detection
*CNN, Deep Learning* ,
- Developed and maintained websites for NGOs, focusing on responsive and user-friendly designs to enhance outreach.
- Led full-stack development using HTML, CSS, JavaScript, and WordPress, ensuring seamless deployment and functionality.

### Grievance Redressal System
*Full-Stack Development, PHP, SQL* ,
- Designed and implemented a Grievance Redressal System using PHP and SQL, enabling users to report grievances, track progress, and receive real-time updates.
- Demonstrated proficiency in back-end development and database management by creating an efficient, user-friendly solution to enhance communication and transparency.

## Education

**University of California, Santa Cruz**
*Master of Science - Computer Science*
September 2024 - June 2026

**PSG College of Technology**
*Bachelor of Engineering - Computer Science*
July 2019 - April 2023

## Skills

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|---|---|
| **Languages** | Java, Python, C++, C, SQL, JavaScript |
| **Frameworks** | Angular, Spring Boot |
| **Tools** | Docker, CI/CD, Apache Kafka |
| **Cloud** | AWS (Lambda, S3, EC2, Batch) |
| **Expertise** | Machine Learning, Deep Learning, Data Analysis, Cloud Computing, Full Stack Development |

## Certifications

**Machine Learning Specialization**
*Stanford*

**Building Systems with the ChatGPT API**
*DeepLearning.AI*

## Awards

- Won **Best Paper Award** in International Conference on Advanced Computing & Communication Systems - ICACCS 2024.
- Scored **1st global rank** in May Challenge 2021 conducted by CodeChef under division 3.

## Publications

- Electronic Medical Record Sharing using Blockchain in India - IEEE Journal, January 2024.
- IoT based water level detection for water ATMs - IRO Journals, February 2023.

## Relevant Coursework

- Data Structures and Algorithms
- Machine Learning and Deep Learning
- Cloud Computing with AWS
- Software Engineering and Design Patterns