

# Johanna Smriti

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## Experience

### Fidelity Investments

February 2023 – August 2024

#### Software Engineer

- Developed and modernized UI applications with Angular, integrating cloud technologies to enhance system efficiency.
- Implemented AWS Lambda and batch functions to create scalable solutions, streamlining processes and improving performance.

### National University of Singapore (NUS)

December 2022 – January 2023

#### Deep Learning Intern

- 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

July 2021 – December 2022

#### Deep Learning Intern

- 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.

### Teck4Good Labs

June 2020 – August 2020

#### Web Developer

- 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.

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## Education

- **Master of Science: Computer Science**, University of California, Santa Cruz, June 2026 - Present
- **Bachelor of Engineering: Computer Science**, PSG College of Technology, India

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## Notable Projects

### Continuous Sign Language Detection: CNN, Deep Learning

- Developed a real-time Continuous Sign Language Detection model using Convolutional Neural Networks (CNN) and deep learning techniques to enhance communication for individuals with hearing and speech challenges.

### Plant Management App: Angular, Spring Boot

- Designed and developed a robust Angular application for real-time crop management, optimizing growth tracking, irrigation scheduling, and health monitoring.

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## Awards & Involvement

- 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.
- **Volunteer** – Teaching under privileged children and building websites for orphanages, Part of an NGO called Tech4Good, August 2020 – December 2022

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## Paper Publication

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

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## Skills

- Java | Python | C++ | C | SQL | JavaScript | Angular | Spring Boot
- Docker | CI/CD | AWS | Lambda | S3 | Apache Kafka
- Machine Learning | Deep Learning | Data Analysis | Cloud Computing | Full Stack Development