

JOHANNA SMRITI

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EDUCATION

Master of science: Computer Science, University of California, Santa Cruz, June 2026*

Bachelor of Engineering: Computer Science, PSG College of Technology, India, April 2023 – CGPA: 8.84

SKILLS & TOOLS

Languages: Java, Python, C, C++

Data Management & Analytics: SQL, Apache Kafka

Web Development: Angular, Spring Boot, HTML, CSS, JavaScript

Others: Machine Learning, Artificial Intelligence, Deep Learning, AWS services (lambda & s3)

NOTABLE COMPUTER SCIENCE PROJECTS

EMR Sharing using Blockchain in India: Ethereum, Truffle, MetaMask, Ganache, Smart Contracts

- Conceptualized and developed a secure Electronic Medical Record (EMR) sharing system using blockchain technology for efficient data exchange in the Indian healthcare sector.

Automated Water Refilling System for Water ATMs: Ultrasonic sensor, GSM Module, Flutter

- Executed an innovative project with Tamil Nadu e-Governance Agency to automate water refilling in Nilgiris district's water ATMs, a tourist destination. Implemented a prototype using IoT for water level monitoring and a Flutter app for real-time alerts, contributing to the reduction of plastic bottle usage.

PAPER PUBLICATIONS

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

WORK EXPERIENCE

Software Engineer, Fidelity Investments, Chennai: February 2023 – August 2024

- 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.

Deep Learning Intern, National University of Singapore, Singapore: December 2022 – January 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.

Research Intern, Samsung R&D, Bangalore: July 2021 – December 2021

- 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, Bangalore: June 2020 – August 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.

AWARDS & INVOLVEMENT

- Won **Best Paper Award** in International Conference on Advanced Computing & Communication Systems - ICACCS 2024 (IEEE)
- 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