

Jai Shah

SOFTWARE ENGINEER | GRADUATE STUDENT

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Education

University of Southern California (USC)

MASTER OF SCIENCE IN COMPUTER ENGINEERING • GPA: 4.00/4.00

Los Angeles, CA

Aug. 2024 - May. 2026

- **Coursework:** Computer Networks (EE-450), Computer System Architecture (EE-457, EE-557), Algorithms (CSCI-570)

Vellore Institute of Technology, Vellore

B.TECH. IN ELECTRONICS AND COMMUNICATION (IOT AND SENSORS) • CGPA: 9.04/10.00

Tamil Nadu, India

May 2022

Skills

Programming

Python, Java, C, C++, APEX, Embedded C, HTML5, CSS3, JavaScript, PHP, MySQL, MATLAB

DevOps

AWS (CodePipeline, CodeBuild, Stacks), Docker, Kubernetes, Jenkins, CI/CD Pipelines

Development Boards

Raspberry Pi, Arduino, NodeMCU

Softwares

Salesforce, Mulesoft, Git, MQTT, Thingspeak, NodeRed, Multisim, Questasim, LabView

Frameworks & Tools

Microservices, Computer Architecture, SDLC, Data Structures & Algorithms

Work Experience

Accenture

BACKEND DEVELOPER

Bangalore, India

Jul. 2022 - Aug. 2024

- Developed and maintained custom CRM applications using **Salesforce** and **APEX** to enhance customer management workflows.
- Created more than 30 **API integrations** using **Mulesoft**, improving data exchange between enterprise applications.
- Worked on automating CI/CD pipelines, reducing development and testing times by over 30 percent.

Schneider Electric

INTERN

Bangalore, India

Jul. 2021 - Aug. 2021

- Researched **UPS efficiency** and proposed improvements for battery longevity and system reliability.
- Analyzed energy consumption trends and provided recommendations to optimize power management.

Caritas NGO

VOLUNTEER

Mauritius

June. 2019 - Aug. 2019

- Dled initiatives focused on **education (SDG 4)** and **environmental conservation (SDG 15)**.
- Taught spoken English to underprivileged children and collaborated on local sustainability projects.

Projects

Keyless Start for Two-Wheeler

IOT-BASED KEYLESS BIKE ACCESS SYSTEM

2019

- Developed a keyless authentication system using **ESP8266** and **WiFi** for bike access via a mobile app.
- Implemented **IoT-based access control** for seamless and secure vehicle sharing.

Google Form Bot

AUTOMATED GOOGLE FORM SUBMISSION SYSTEM

2020

- Designed an automation bot using **Py-Flask** to fill out Google Forms based on required outcomes.
- Optimized the system for scenarios requiring automated bulk responses, by 98 percent compared to manual entries.

Smart Mirror with MQTT Home Automation

IOT-ENABLED SMART MIRROR WITH HOME AUTOMATION

Oct. 2021 - Nov. 2021

- Developed a Smart Mirror integrated with existing **home automation systems** using **MQTT communication**.
- Used a **Raspberry Pi** with **ESP8266 modules** to control lighting, appliances, and display real-time information.

Presentation

OpenCV-Based AI-Driven Customer Screening System for COVID-19 Prevention

PUBLISHED IN WIRELESS PERSONAL COMMUNICATIONS

2024

- **Contribution:** Developed an AI-vision powered system for crowd management using OpenCV & Machine Learning.
- **DOI:** 10.1007/s11277-024-11286-x

Certifications & Awards

Q2 FY23 **Growth Catalyst Award (Individual Award)**, at Accenture for outstanding growth contributions

H2 FY23 **Pinnacle TCI Award (Individual Award)**, at Accenture for exceptional performance and achievements

2023 **MuleSoft Certified Developer (MCD - Level 1)**