

Sanjay Kadavarath Ajayakumar

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EDUCATION

NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY (ANNA UNIVERSITY)
B.E. Computer Science and Engineering. CGPA: 8.0(current)

Coimbatore, Tamil Nadu
October 2022 - (current)2025

ST. MARY'S POLYTECHNIC COLLEGE (SBTE)
Diploma - Computer Engineering. CGPA: 8.8

Palakkad, Kerala
July 2019 – May 2022

TECHNICAL SKILLS

- **Cloud & Infrastructure:** AWS, Microsoft Azure, IBM Cloud, Terraform, Kubernetes, Docker
- **CI/CD & Automation:** Jenkins, GitHub Actions
- **Scripting & Programming:** Bash, Shell Scripting, PowerShell, Python
- **Security and Management:** IAM
- **Database Management:** MySQL, Microsoft SQL Server
- **Version Control:** Git
- **Automation Tools:** Ansible

PROJECTS

NODE.JS APP DEPLOYMENT ON AWS EC2

APRIL, 2025

- Deployed a Node.js application on an AWS EC2 Ubuntu instance. Configured environment variables, installed dependencies, and launched the app using Node.js and NPM. Set up Elastic IP and updated security group rules to enable external access via a custom port.
- **Technology Used:** AWS EC2, Node.js, NPM, Git, SSH, Elastic IP, Security Groups, env Configuration

GITHUB API INTEGRATION

MARCH, 2025

- Automated GitHub repository management using Bash scripting on an Ubuntu Linux server hosted on AWS EC2. Integrated GitHub API to fetch user access lists, manage repository permissions, and log authentication details, improving access control and security monitoring.
- **Technology Used:** AWS EC2, GitHub, Bash Script, MobaXterm, OAuth

AI VIRTUAL HOMESELLING ASSISTANT - IBM CLOUD - [Link](#)

MAY, 2024

- Developed an AI-powered chatbot using IBM Watsonx Assistant on IBM Cloud to enhance customer engagement for a home-selling website. The chatbot answers queries about property listings, mortgage options, and the home-buying process. It was integrated with IBM Cloud Functions and NLP.
- **Technology Used:** IBM Watsonx Studios, NLP, HTML, CSS, JavaScript, PHP

AUTONOMOUS CAR AND PARKING SYSTEM

AUGUST, 2022

- Built an autonomous vehicle model using NodeMCU, Arduino, and C++, with infrared sensors for obstacle detection. Integrated ThingSpeak AI to monitor parking availability in real time, displaying vacant spots as green and occupied ones as red for better parking efficiency.
- **Technology Used:** C++, NodeMCU programming, ThingSpeak AI, IR Sensor, Stepper Motor

ADDITIONAL INFORMATION

- **Certification:** [Microsoft AZ-104](#), [IBM Watson Studio](#), Cloud Foundation (AWS Academy), Data Engineering Foundation (AWS Academy), Data Science with Python (Soften Technologies)
- **Languages:** Fluent in English, Malayalam(native); Conversational Proficiency in Hindi, Tamil.
- **Strengths:** Leadership, Problem Solving, Technical Proficiency
- **Additional Skills:** [UI/UX Design](#)