

# Ganesh Induri

ganeshinduri4@gmail.com / 7981923964  
[github.com/GaneshInduri9](https://github.com/GaneshInduri9) | [linkedin.com/in/ganeshinduri9](https://linkedin.com/in/ganeshinduri9) | [ganesh-portfolio.app](https://ganesh-portfolio.app)

## Skills

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**Languages:** React js, Java, C, JavaScript Python, Groovy, Shell Script

**Technologies:** AWS IoT core, Zigbee Protocol, GObject

**Methodologies:** Inter-Process Communication (IPC), Data Structures and Algorithms

## Work Experience

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**Comcast, Chennai**

Jan 2023 - Present

### *Software Development Engineer*

- Developed GObject client API's which helps to pair Zigbee devices and commission a Matter device (to a gateway), communicate with existing devices on the network, also provided client's with G-Object signals that happens when there is an event in the network (i.e : zigbee channel change event, zigbee network interference events).
- Played a vital role in open sourcing the Barton project, which provides clients with device control and management on the network.
- Integrated GObject introspection, allowing clients in various programming languages to interact with the device- API through automatically generated bindings.
- Added local time zone and DST support for gateways, enhancing automation functionality. This ensured scheduled tasks aligned with regional time changes. As a result, the system became more reliable, particularly in areas with frequent daylight-saving time adjustments.
- Developed a Python tool that updates the device descriptor list (an XML file) with the checksum of the latest firmware for a device, validates this checksum against the actual checksum before proceeding with OTA upgrades, which eventually deployed to over 10 million devices.
- Developed automations for chime devices, including Door-Window sensor chime automation, Door-Lock chime automation, and Door-Bell chime automation. Additionally, added telemetry support for these automations, improving the visibility of chime-based processes.
- C, Java, Python, AWS-IoT core, G Object, Docker, Linux OS.

## Education

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**Vel Tech Rangarajan Dr. Sagunthala R&D institute of Science and Technology**

Aug 2019 - Jun 2023

B-Tech in Electronics and Communication Engineering

**CGPA:8.37/10**

Relevant Coursework: Object Oriented Programming, Discrete Maths, Data Structures and Algorithms, Operating Systems, Networking, Advance Data Structures and Algorithms, Image Processing, Digital Signal Processing.

## Project Work

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- **Multi-Page Portfolio (2024):** This is my personal portfolio built with React.js. It features a multi-page layout, including sections for About Me, Recent Projects, Resume, and Contact. Styled with Bootstrap 5 and CSS, it is a responsive web app that adapts to different screen sizes. The portfolio is built and deployed using Vercel.
- **Leetcode-150(2024):** This repository contains some of the best problems frequently asked by top tech companies. Each problem/algorithm includes various approaches, starting from brute force to the most optimal, with explanations of the intuition behind each approach. It also includes test cases for verification.
- **React based Weather App (2023):** Developed a React based weather app, this app allows users to search for the weather conditions of any city in the world and provides weather information. It also provides the forecast for the next five days. It also has an option to get the weather based on the current location. The app uses Shecodes weather Api to weather data.

## Certificates and Interests

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- C and Java Udemy, Data Structures and Algorithms on Coursera.
- Running, Gym, Reading books.