Ganesh Induri

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SKILLS ___

Strongest Areas: Data Structures, Algorithms

Languages : Java, C, C++, JavaScript, Python, Groovy, Shell Script, HTML5
 Frameworks : React Js, Node Js, Tailwind CSS, Bootstrap-5, Express Js
 Technologies : AWS IoT core, Zigbee Protocol, G-Object, MQTT, MangoDB

Methodologies: Inter-Process Communication (IPC), Socket communication, Multi-Threading

EXPERIENCE _

Comcast, Software Development Engineer

Jul-2023-current

- Developed **G Object API**s to pair Zigbee devices, commission Matter devices to a gateway, and seamless communication with existing devices on the network, increasing the device **efficiency by 20**% and supporting 10 million devices.
- Architected signals for device events, such as **device discovery** and **commissioning**, enhancing monitoring capabilities and increasing operational efficiency across **diverse deployments** by 32%.
- Contributed to open-sourcing the Barton Project under RDK-M, **enabling 13 million RDK** devices to integrate device control and management features provided by Barton. This initiative enhanced collaboration simplifying **device integration** by 40%.
- Integrated introspection, **enabling clients with high level languages** to seamlessly interact with the device-service API through automatically generated bindings. Expanded Barton's accessibility, streamlining client integration and boosting **business opportunities** by 20%.
- Implemented **local time zone and DST** in gateways, enhancing **automation functionality** and scheduled tasks aligned seamlessly with regional time changes. This increased user satisfaction by 10% across 120 regions **affected by DST**.
- Created a Python CLI tool to automate the process of updating the device descriptor list XML file with checksum of the
 latest firmware. Enabled validation firmware upgrades, reducing the manual effort and saving \$45000.
- Expanded automation for **chime devices**, including Door-Window sensor chime automation, Door-Lock chime automation, and Door-Bell chime automation. Added **telemetry support**, increasing Chime visibility by 30%.
- Engineered **subtype sensor discovery**, enabling mobile app to categorise and **pair devices lights**, **switches**. Automated AWS messaging improved real-time updates, enhancing user experience by 25%.
- Mentored two juniors in setting up, developing, deploying, and debugging in Xfinity home firmware project.

Comcast, Software Development Engineer, Intern

Jan-2023-Jul-2023

- Enhanced device visibility on the Xfinity app by 10% by creating and publishing **shadow states for multiple devices to AWS**. Added detailed reporting features, including power consumption tracking and device status updates.
- Built a diagnostic utility to collect service-wide device data and upload it to the cloud, reducing bugs by 10%.

PROJECTS.

FreshFynd e-commerce

- Developed a high-performance e-commerce platform using the NodeJs, Express Js, React Js, styled with Tailwind CSS.
- Optimised for speed, the website loads **40% faster** than standard e-commerce sites by implementing server-side rendering and caching strategies.
- Leveraged MongoDB's indexing and aggregation pipelines to enhance product search efficiency by 50%, ensuring seamless navigation for thousands of products.

Leetcode-150

- A repository containing 150+ of the best problems frequently asked by top tech companies.
- **Multiple approaches** for each problem, ranging from brute force to the most optimal solutions, **Clear explanations** of the intuition behind each approach to help users understand the logic.
- · Algorithms run 60% faster than other LeetCode solutions on average, thanks to optimised approaches

EDUCATION

VelTech University, B-tech in Electronics and communication Engineering. **CGPA: 8.37/10 Jul-2019-Apr-2023 Relevant Coursework**: Object Oriented Programming, Discrete Maths, Data Structures and Algorithms, Operating Systems, Networking, Advance Data Structures and Algorithms, Image Processing, Digital Signal Processing.

AWARDS.

- Pinnacle Award Q4 2024, Awarded by Krithika Raman(VP) for significant contributions toward open sourcing Barton under RDK-M.
- Received the 'CHAMP' Award at Comcast for improving overall device performance by 3%.