Ganesh Induri

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SKILLS

Strongest Areas	: Data Structures, Algorithms
Programming Languages	: JavaScript, Java, C, C++, Python, Groovy, Shell Script
Frameworks & Libraries	: React Js, Node Js, Tailwind CSS, Bootstrap-5, Express Js, Git, Webpack, HTML5, CSS3
Database	: MongoDB, Firebase, PostgreSQL
Platforms	: AWS, Vercel

WORK EXPERIENCE

Comcast, *System Development Engineer*   *Jul-2023-current*

- Developed a backend server for a Slack bot using Python to automate device status retrieval for the IoT Platform Team, reducing reliance on developers for manual queries. Deployed on AWS Lambda for scalability and cost efficiency. Improved response time and accessibility of device status updates within Slack.

- Engineered a Python CLI tool to automate the process of updating the device descriptor list XML file by generating a checksum for the latest firmware. Enabled validation firmware upgrades, reducing the manual effort and saving $45000.

- Innovated an automation utility tool that creates, deletes, queries, and updates available automations, providing a solution to clients dependent on these automations via the device command-line utility. This involved identifying opportunities for improvement through technical discussions and performing technical trade-offs to enhance functionality.

- Implemented local time zone and DST handling in gateways, enhancing automation functionality and ensuring scheduled tasks aligned with regional time changes. This improved customer satisfaction by 10% across 120 regions affected by DST, simplifying processes and enhancing customer experience.

- Built a system diagnostic tool to collect real-time process data, identify root causes of failures, and automate cloud-based reporting, reducing software defects by 10%. Enabled proactive debugging and improved system reliability.

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 the AWS cloud. This enabled system status reporting, including power consumption tracking and device status updates.

- 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%.

PROJECTS

FreshFynd e-commerce   Github

- Crafted a high-performance e-commerce platform using the NodeJs, Express Js, React Js, styled with Tailwind CSS.
- Implemented server-side rendering and caching, reducing page load time by 7%.
- Leveraged MongoDB's indexing and aggregation pipelines to enhance product search efficiency by10%, ensuring seamless navigation of products.

- *FreshFynd.ganesh.tech*

WhyAlgo   WIP

- **The why behind algorithms.**
- Bridged the gap between 'how' and 'why' in algorithm learning by building WhyAlgo, a MERN stack platform that not only explains how algorithms work but also delves into why they work, providing deeper insights into their logic and efficiency.
- Implemented static site generation for accelerated load times and increased efficiency.
- Leveraged Firebase for user authentication and data storage, alongside SWR for efficient data fetching.
- Algorithms run 60% faster than other LeetCode solutions on average, thanks to optimised approaches.

EDUCATION

VelTech University, Bachelors *in Electronics and communication Engineering.*   **CGPA: 8.37**   *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.