Harsha Kiran Boyapati

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Skills

C#, Javascript, ReactJs, Node Js, Java, Spring Boot, Ruby on Rails, Mongo, AWS IOT, AWS Kinesis, MySQL

Experience

September 2021 - PRESENT

Enphase Energy, Bangalore - *Engineer-SW*

- Worked on integrating SPAN, a smart load control panel with Enphase Solar products
- Wrote microservices in clojure that brings energy consumption data of different users from AWS Kinesis and processes it to generate reports of energy consumed by users in a day, week, month ,year and stores them in a Mongodb database. Exposed REST APIs.
- Wrote Spring Boot microservices that used Mongodb, MySQL, AWS Kinesis etc. Exposed REST APIs. Tested the code using JUnit5 and Mockito.
- Worked on Ruby on Rails monolith. Added and modified REST apis.
- Integrated Enphase Homeowner app(React js) with SPAN smart load controller. Enabled bidirectional communication from the React app with AWS IOT Core over MQTT protocol to remotely control the smart load controller and the appliances connected to it in users homes. Used Protocol Buffers for serialization to reduce the size of messages transferred over MQTT protocol. Resolved complex state related bugs by refactoring the app to use pure components as much as possible.
- Worked on a Nodejs app that serves as an adaptation layer between HTTP and MQTT protocols
- Leveraged Datadog to analyze logs, metrics, errors, infrastructure to debug and enhance performance of the microservices
- Utilized AWS IOT to control the behavior of iot things by modifying their policies, AWS Kinesis to provide a buffer between services, AWS IAM to debug problems with access control.

August 2020 - August 2021
GE Digital, Hyderabad - *Software Engineering Specialist*

- Worked on ADMS, a desktop app suite based on .NET framework, written in C# and Cpp, which is used by power distribution companies for monitoring power distribution and outage management.
- I worked on resolving problems faced by Power Distribution utilities in their Outage Management System, which helped the utility companies to provide better incident resolution experience to their customers.
- I got myself well versed with the complex domain specific UI of DMS and OMS, which are big Desktop applications and helped my teammates in navigating and finding what they need in those applications.
- I fixed a hard to find bug of concurrency after one painstaking month of debugging which made me appreciate the elegance of linear data flow through which that bug could have been avoided. My interest in functional programming, pipes in unix philosophy and data streams in data engineering stems from this experience.

Education

July 2016 - June 2020
IIT Kharagpur - *B.Tech*
Majored in Electronics and Electrical Communication Engineering

Achievements

- I was awarded the title ***Energizing Bunny | Teamwork*** for Q2 of 2022 out of 2000+ employees at Enphase Energy.
- **AIR 788 in JEE Advanced** (2016) - 99.4 percentile among 1,50,000 candidates
- ***AIR 15 in VITEE (2016)*** *- 99.9 percentile among 2,00,000 candidates*
- **KVPY Fellowship Award (2015)**