ABHISHEK GOYAL

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Education

PES University   **Aug. 2019 – May 2023**
B.Tech in Computer Science — 8.24/10   *Bengaluru*

Relevant Coursework

- Data Structures
- Operating System
- Algorithms Analysis
- Database Management
- Design Patterns
- Computer Networks
- Object Oriented Programming

Experience

Cisco Appdynamics   **July 2023 – Present**
Software Engineer   *Bengaluru*

- **Loadgen Data Injestion**
  - Designed and implemented a complete microservice architecture, built multiple applications, containerized them using **Docker**, pushing images to **AWS ECR**.
  - Integrated Javascript Agent to responsible to regulate and populate data to the services
  - Developed and integrated a TeamCity pipeline across several repositories, optimizing automation by **90%** using Java, Playwright, Docker, and Kubernetes, and seamlessly integrating it with the existing end-to-end testing pipeline
- **Browser Real user Monitoring - Session Sampling**
  - Collaborated on a feature implementation using **Redis**(Jedis), to optimize session sampling, while using **Lua** scripting to handle race conditions across multiple service pods helped customer to save 60% of license usage.
- **AWS to Azure Cloud Migration**
  - Spearheaded the expansion of services from **AWS** to **Azure**,
  - Owned & Managed pipelines and reviewed logs for over 10 services within the **AKS cluster** as part of the debugging process.
- **End User Monitoring service Data Streaming Migration (Kinesis to Kafka)**
  - Tested the **Kafka** cluster for stability by reviewing logs and ensuring smooth event data streaming across 8 microservices. Handled deployment processes and contributed to the delivery of monthly releases.
- **End User Monitoring Features Automation**
  - Leveraged my expertise to streamline and make the automation pipeline smooth which involved implemented crossfunctional features. Automated various test cases of browser monitoring features to 85% coverage

Red Hat   **January 2023 – June 2024**
Software Engineer Intern   *Bengaluru*

- Developed **Go** application to fetch the latest commit SHA from repositories using GitHub APIs, enabling automated updates for build configurations.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Implemented YAML parsing and manipulation using Go's yaml.v2 package to dynamically update references with the latest commit SHA in build files.

Projects

Nalanda Industries | *Door Manufacturing Company*   **November 2023**

- Developed a comprehensive website for a door furniture company using React.js, focusing on user friendly design and seamless functionality to enhance customer engagement
- Technologies involved: Html/css, Javascript, React.js, Node.js, Express.js

Detection and Mitigation of attacks in RPL protocol in 6LowPAN IoT networks   **October 2022**

- Research and develop techniques to detect and mitigate security threats in the RPL protocol for Iot Networks
  -Published work in **Springer book**, contributing to the field of IoT network security: **Visit Paper**
  - Technologies used: Python, IoT, RPL protocol,Cooja Simulator

Technical Skills

Languages: Java, C++, Python, JavaScript, GO
Software Tools: Kubernetes, Docker, Redis, Kafka, Postman, Git, AWS, MySQL, TeamCity
Technologies/Frameworks: SpringBoot, Node.js, React,js, Vue.js Playwright, TestNg

Achievements

- Received recognition for contributions in AWS to Azure migration of services in Cisco Appdynamics
- Rewarded for automation of JavaScript agent agent features.