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▼ Objective

- ❖ To obtain a creative and challenging position in an organization that gives me an opportunity for self-improvement and leadership in the field of DevOps Engineering.
- ❖ I have 8+ year of experience as Software Engineer and 6+ years as DevOps Engineering. Worked complete life cycle of each product development, that including requirements, definition, design, architecture, testing, coding.
- ❖ Strong skills in integrating security tools in CI/CD build pipelines including Project Setup, Build and Release process setup, Build Automation, Continuous Integration, AWS, and DevOps. Seasoned interpersonal skills, strong work ethics, and ability to stay organized within fast - paced organizations.

▼ Technical_Skills

- ❖ **Languages:** C, C++, Java, MATLAB
- ❖ **Full Stack Development:** HTML, CSS, JavaScript, Bootstrap, Nodejs, Django.
- ❖ **Scripting:** Shell, Perl, Python, Ruby, Groovy, JavaScrip.
- ❖ **Security Automation Tools:** SonarQube, Snyk, fortify, GitSecrets.
- ❖ **Cloud:** AWS, Azure.
- ❖ **Version Control Tools:** Git, GitHub, Bitbucket.
- ❖ **Continuous Integration:** Jenkins, Gitlab, CI/CD Aws
- ❖ **Containerization Tool:** Docker, Kubernetes, Helm Chart.
- ❖ **Infrastructure Provisioning:** Terraform, CloudFormation.
- ❖ **Configuration Management:** Ansible.
- ❖ **Build Tools:** Maven, Ant, NPM, MS Build.
- ❖ **Monitoring Tools:** Splunk, Cloud Watch, Prometheus, Grafana.
- ❖ **Python Libraries:** NumPy, Pandas, SciPy, Matplotlib, Seaborn, Plotly, Scikit-Learn, Machine Learning, TensorFlow.
- ❖ **Operating systems:** Windows, Linux, Ubuntu.
- ❖ **Databases:** RDS, DynamoDB, MongoDB, MYSQL.
- ❖ **Services Techniques:** Microservices, Server Less.
- ❖ **AWS Services Used:** Code Pipeline, CloudFormation, IAM, EC2, EBS, VPC (Subnets, Routing table, Network ACL, NAT gateway, Cloud Front, S3, Route53, Secret Manager, Cloud Watch, RDS, DynamoDB, SQS, SNS, Lambda Function, Cognito, Step Function, SAM.
- ❖ **Android App:** Java, Kotlin, connecting with AWS.

▼ Work Experience

❖ **Cookpad Limited** (Bristol, UK)

Project Name: Moment IOT Device (IOT, AWS, Android App)

❖ **DevOps Engineer.**

Nov 2022 to Present.

- Responsible for application Build & Release process which includes Code Compilation, Packaging, Security Scanning and code quality scanning, Deployment Methodology and Application Configurations.
- Creating serverless infrastructure for REST API for Android App.
- Integrated security tools like Snyk, SonarQube, OWASP Zapi in Jenkins Ci/CD build pipeline float results back to JIRA and notify the team.
- Performed SAST, DAST, SCA and IAC security testing on applications.
- Extensively worked on GitHub Actions for continuous integration and for End-to-End automation for all build and deployments.

❖ **Aluminium lighting Company** (Port Talbot near Cardiff, Wales, UK)

Project Name: Intellectual Structure Monitor (IOT, AWS, Android App)

❖ **DevOps Engineer.**

Dec 2017 to Nov 2022.

▪ **Team Lead -**

- Worked as a Team Lead and contributing as Agile Scrum Master in organisation, reviewing the code, daily stand ups and created sprint.
- Experience with interacting with Stakeholders and Product owner, also able to coordinate, managed, motivate, and guide team.

▪ **Infrastructure /Terraform –**

- Created overall blueprint of Infrastructure and then Build and deployed Infrastructure using Terraform Script for Developers / Engineers and work on five different applications.
- Environment is set in such way that it is ability to deploy consistent, highly scalable, available, secure, and well governed technology components.

▪ **MATLAB –**

- Created FFT models using MATLAB.
- Analysis millions of data using MATLAB code, generated multiple plots for the results. Automated the build process using AWS Cloud.

▪ **Python and Django –**

- Created Full stack application using Python and Django
- Created Microservices using python for Android App .

▪ **CI/CD AWS / Jenkins–**

- Design and implemented automated build processes for different developers (like Web Portal, Android, machine learning and java developers, firmware engineers) using AWS Services, striving to make the compilation, testing, and packaging process as automatic and resilient as possible.

- Integrated security tools like, Snyk, SonarQube in Jenkins Ci/CD build pipeline. Performed SAST, DAST, SCA and IAC security testing on applications.
- All Software deployed using Jenkins, created new jobs, managed required plugins, configuring the jobs selection using Git push, build trigger, build system and post-build action, schedule jobs using the POLL SCM option.
- **Docker/ Kubernetes –**
 - Lifted and Shifted existing Monolithic Web application into AWS Cloud by converting web application into .NET Web Application and creating microservices and back-end APIs using lambda function and docker images.
 - Build the application using Jenkins and Created Docker image and stored image in ECR.
 - Used **EKS** to manage containerized applications using its nodes, Config Maps, Selector, Services, and deployed application containers as Pods.
- **Data Engineering / ML –**
 - Design and implemented data pipeline that can analysis Batch data and Real time data using kinesis Firehouse and, Analysis and Visualization this Dataset using IOT Analytics and Quick Sight and stored data in s3 bucket using python Machine learning model.
 - Managing Relation and Non-relation Database in the AWS Cloud using RDS and DynamoDB.
- **EC2 –**
 - Automated the backing up of the data by use of the **Shell** script which creates images and snapshots of all **EC2** instances at regular intervals and configured and designed **EC2** instances in all the environments to meet high availability and complete security.
 - Create & Utilize Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, Dynamo tables, EBS volumes, Lambda Functions. Encrypting the EBS volumes to make sure the data in rest is secured and protected.
- **Android App –**
 - Created Serverless Architecture for Android App and .Net Web App using AWS Services.
 - Design and developed Android **App using MVVP patter** that is used to upload the firmware code to the device using Bluetooth technology and show analysis details of IOT device reading.
 - Experience in working with Android testing using **Junit4, Mockito, and TDD**.

❖ **Cymtec Limited** (Ystrad Mynach near Cardiff, Wales, UK)

Project: Laser2000

❖ **Cloud Engineer. (Internship)** **May 2017 to Dec2017**

- Worked on **medical** device for the treatment of cancer tissue.
- Updated existing Arduino **Firmware** for the wireless technology like **Bluetooth & Ethernet**.
- Developed a .NET **Web-based Portal** for controlling device **in the AWS Cloud by creating microservice in lambda function**.
- Designed and Implemented **CI/CD automation builds** for the web application **using Jenkins**.
- Created Report, User Manual, Test plan, and test case for the device.

❖ **Collabra tech** (Pune, Maharashtra, INDIA)

Project: Temperature Monitor

❖ **Junior Cloud Architect** **June 2016 to Sep 2016**

- Work in a team, which design product based on the Internet of Things.
- Updated firmware of product that is used to communicate devices with **AWS Cloud** and send real-time data into the cloud.
- Updated AWS infrastructure using **CloudFormation stack**.
- Created Test Report and User Manual of the product.

❖ **MIT Project Developer Group, Aurangabad, India.** (Products develop for my university which is given by my professor as per the university requirement)

Project: Web server base attendance with Android application controlling.

❖ **Software Developer IOT.** **Dec 2014 to April 2016**

- Work as a team **leader** on the project to design an Attendance base system for the University.
- Designed and developed **Firmware** for the product using the Arduino board and wireless technology like Wi-Fi and Bluetooth.
- Designed and developed a .Net **Web Application in the AWS cloud using RDS and DynamoDB** that shows the attendance marked Students.
- Designed and developed **Android App** that was used to connect with the database.
- Designed a **planogram** for each member of the team on day-to-day basis tasks.
- Create a **Flow chart and Algorithm** for the project.

Project: Home automation controlled by an Android application.

- Work as a team leader on a project to design home appliances using the android app.
- Designed and developed hardware and software for the project by using the Arduino board.
- Developed an Android app for controlling purposes using the Ethernet board.
- The app was used to control Lighting, fan, and displaying room temperature and humidity.

▼ Education and Qualification

❖ MSc Embedded System Design:

University of South Wales, UK (2016-2017)

Grade: - 2:1

Project: Smart ECG health measurement Device Using Android Application.

- Design and developed a Smart Medical device that is used to take a reading of device and send Live readings into the AWS cloud for analysing purpose.
- Implemented AWS infrastructure for the Product using CloudFormation stack.
- Design and developed the hardware and firmware of a device using STM32 and Wi-Fi.
- Developed the Android App to display the reading of the device.
- Created the .Net Web App using AWS Services where Doctor can monitor the patient's heartbeat reading and analyse it and provide the right prescription for the patient.
- Design the system in such a way that data can be accessible to any place in the world.

❖ Bachelor's degree in Electronic and Communication Engineering:

Marathwada Institution of Technology, INDIA (2012-2016)

Grade: - 2:1

Project: Automatic telescope controls with the Android Application.

- Design and developed a Telescope monitor device that is used to control by the Android phone and Senses the direction of the Star and Moon.
- The direction is put manually then the signal sent to the telescope by using the Bluetooth then the telescope moves automatically.
- About my Role: We were in a group of three students in that I was the software developer and planner. I had designed the code in the Arduino, java and used a platform like visual studio, MATLAB.
- At the end of the term, the project was successfully run, and this application can be used for making telescope toys.

▼ Certification

- **Master in DevOps Engineering**
- **AWS Certified Solutions Architect -Associate**
- **AWS Certified Developer – Associate.**
- **Agile Scrum Master.**
- **Masters Data Science using Python and R.**

❖ Image Processing using State Machine.

- Developed Image Processing Workflow by using **Step Functions**.
- Implemented Branching Logic with **Parallel State**.
- Created **S3 Trigger** to Invoke State Machine,
- Created Backend Lambda functions, Image Resizer function, and Deleting Processed File.
- Finishing the State Machine with Error Handling and tested the State Machine Workflow

❖ Web Application using CICD.

- Automating **Serverless Frontend** Deployment to S3 with AWS Code Build.
- Setting up Source Control with Git and AWS Code Commit.
- Automating Serverless Application Deployment with AWS Code Pipeline.
- Static Website Hosting and Serverless Access Logging using S3.
- Route 53 Configuration to Serve the Serverless App from a Custom Domain.
- Distributing the Serverless App over AWS CloudFront.
- Evaluating the Live App and Viewing the Logs.
- Invalidating CloudFront Cache Automatically using Code Build.