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Status: Skill Worker Visa
Need Sponsorship Visa

▼ 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 am passionate about new technology and eagerness to learn new skills, I have more than Five years of experience in AWS and more than 4 years as DevOps Engineering. Worked complete life cycle of each product development, that including requirements, definition, design, architecture, testing, coding.
- Also, I am contributing as Agile Scrum Master in organisation and worked as a Team Lead. Experience with interacting with Stakeholders and Product owner, also able to coordinate, manged, motivate, and guid team on daily basis, that have helped me personally in broadening and boosting my skills.

▼ Technical Skills

- **Languages**: C, C++.
- **Scripting:** Shell, Python, Power Shell, SSH key.
- **Web Development:** .NET, C#, JavaScript, Node.js.
- **Tools:** MATLAB, Asana, Jira, Docker Hub, Eclipse, STM32 cube, Android Studio, SQL Server Management, Visual Studio, Anacoda(Python), Arduino IDE.
- **Cloud:** AWS, Fundamentals of Azure, Fundamentals of Google
- **Version Control Tools:** Git, GitHub, Bitbucket, SVN, Perforce.
- **Continuous Integration:** Jenkins, Gitlab, CI/CD Aws
- **Containerization Tool:** Docker, Kubernetes.
- **Infrastructure Provisioning:** Terraform, CloudFormation, Json, Yaml.
- **Configuration Management:** Ansible, Chef, Puppet
- **Build Tools:** Maven, Ant, NPM, MS Build.
- **Monitoring Tools:** Splunk, Nagios, Cloud Watch.
- **Python Libraries:** NumPy, Pandas, SciPy, Matplotlib, Seaborn, Plotly, Scikit-Learn, Machine Learning, TensorFlow.
- **Operating systems:** Windows, Linux, Ubuntu, FreeRTOS, Contiki.
- **Databases:** RDS, DynamoDB, MongoDB**.**
- **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.
- **Protocols:** USB, I2C, SPI and UART, HTTP, TCP, MQTT.
- **Boards:** STM32, Arduino, ESP8266, Raspberry pi, and GSM
- **Wireless technology:** Bluetooth, Ethernet, Zigbee, WI-FI.
- Test equipment: Voltmeter, Oscilloscope, Spectrum analysers, Waveform generators, Multi-meter, Oscilloscope, Power Supply, Waveform Generator, , frequency counter, audio analysers.
- **Android App:** Java, Kotlin, Connecting with AWS and Wireless technology, Testing with TDD, JUNIT and Expresso.

▼ Work Experience

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

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

❖ DevOps Engineer. Dec 2017 to Present.

- Working as Lead DevOps Engineer in ALC, where I have a responsibility to lead a team using agile scrum methodology, my role is to assign the task to the developer team daily and review their work and Code using GitHub.
- Implemented DevOps operations process involving Automation, Build/Release Management, Software Configuration Management, and Change Management.
- Setup automation environment in AWS for the different developers (like Web Portal, Android, machine learning and java developers, firmware engineers) using AWS Services.
- Clustering or Managing Docker images using Docker Swarm and Kubernetes.
- Analysing batch data and real-time data using Machine learning module and python.
- Experience in using Jenkins as a continuous integration tool to creating new jobs, managing required plugins, configuring the jobs selecting required source code management tool, build trigger, build system, and post-build actions, scheduled automatic builds, notifying the build report. Configured Git with Jenkins and schedule jobs using the POLL SCM option.
- Managed the Code Repository by maintaining code in GIT, improve practices of branching and code merge to custom needs of the development team.

- Designed and implemented **Firmware** for the live data monitoring system, which sends data to the AWS Cloud by using Embedded C.
- Experience in Designing firmware for integrating IOT device with Cloud, by using different boards like **STM32, Arduino, ESP8266, Raspberry pi, and GSM modem.**
- Created **AWS infrastructure** as a code using **Terraform, Ansible, CloudFormation stack and** deployed the code using **AWS Code Pipeline**.
- Created the AWS architecture to store live streaming data in the S3 bucket using kinesis Firehouse and, Analysis and Visualization this Dataset using IOT Analytics and Quick Sight.
- 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.
- Managing Relation and Non-relation Database in the AWS Cloud using RDS and DynamoDB.
- Created Serverless Architecture for Android App and .Net Web App using AWS Services.
- 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.
- Worked on **Docker** container **snapshots,** attaching to a running container, removing images, managing Directory structures, and managing containers.
- Used **Kubernetes** to manage containerized applications using its nodes, Config Maps, Selector, Services, and deployed application containers as Pods.
- 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**.
- Design various **Flow charts, Algorithm, Reports, User Manual, Test plane and Test case using Jira** for the projects.

❖ **Cymtec Limited (Ystrad Mynach near Cardiff, Wales, UK)** **May 2017 to Dec2017**
Project: Laser2000
❖ **Software Engineer. (Internship)**

- Work in a team developed a product based on **Medical** equipment 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 and docker images.**
- Designed and Implemented **CI/CD automation builds** for the web application **using Jenkins and EC2 instance.**
- Created Report, User Manual, Test plan and test case for the device.

❖ **Collabra tech (Pune, Maharashtra, INDIA)**
Project: Temperature Monitor
❖ **Junior Embedded Software Developer** **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** of the project to design an Attendance base system for the University.
- Design and developed **Firmware** for the product using the Arduino board and wireless technology like Wi-Fi and Bluetooth.
- Design and developed .Net **Web Application in the AWS cloud using RDS and DynamoDB** that shows the attendance marked Students.
- Design and developed **Android App** that used to connect with the database.
- Design **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 controlling by an Android application.

- Work as a team leader of a project to design home appliances using the android app.
- Design 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.

▼ Interest

- Learning New Skills i.e getting Certificates.
- Coding
- Creating Hobby Projects.
- Playing chess , cricket.
- Cooking

▼ 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.**
- **Master's in Data Science using Python and R.**

▼Hobby Projects

❖ 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.
- Testing the Live App and Viewing the Logs.
- Invalidating CloudFront Cache Automatically using Code Build.