​ **Madhana Balasubramanian**

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**SUmmary**

**Cloud Engineer and Data Scientist** with over 6 years of successful experience in Infrastructure Operations in **Agile**, **Devops** methodologies and **Application Development** from design to deployment. Recognized consistently for performance excellence and contributions to success in **Automation**. Strengths in AWS, Linux flavors and Python development with a Master's in Data Analytics.

**SKILL SET**

* **Language**: Python, R, Shell, Groovy, YAML, SQL, Java (Administration)
* **Devops**: Jenkins, Ansible, Terraform, Docker, Linux, Ubuntu.
* **AWS**: VPC S3, EC2, Route53, Load balancer, DynamoDB, CloudFormation, CloudWatch, Lambda, AWS Budget
* **AWS Security**: IAM, KMS key encryption, WAF, CloudTrail, Guard Duty
* **Virtualization**: Docker (Proficient), Kubernetes (Beginner)
* **Infrastructure as a Code**: CloudFormation, Terraform (TFLint, Terrascan)
* **Webserver**: Nginx, Apache, IBM Http Server.
* **Application Server**: Oracle WebLogic, IBM WebSphere
* **Databases**: MSSQL, MySQL, SQLite, Oracle, Neo4J, MongoDB, Redis
* **Visualization & Monitoring**: Tableau, Power BI, Splunk
* **Other skills**: Data Warehousing, Machine Learning Algorithms, Causal Inference
* **Process**: Incident and Change Management

**WORK EXPERIENCE**

**Senior Devops Engineer: (June 2020-Present) at Fidelity Investments** <https://www.fidelity.com/>

* Migrating Legacy Applications to Docker Swarm, Kubernetes
* Automate process and build tools to use internally to increase productivity
* Implement Infrastructure as Code practice using Terraform
* Build CI/CD pipelines and maintain it for consistent application deployment
* Implement automated certificate renewal process across the team.
* Build and move applications to AWS from Open stack.

**Cloud Engineer and Data Scientist: (Oct 2018 – May 2020) at BPI Unitek.AI** [**https://www.bpi-unitek.com/**](https://www.bpi-unitek.com/)

* My Master's Thesis **Research** was funded by this company and research was done on insurance fraud claims using Supervised Machine Learning and a **REST API** was built for predictions.
* Developed an end to end application with REST API (**Python Flask**) which automates a process for a customer and made it as container using docker with **Postgres DB, Nginx** and Gunicorn.
* Built and maintained the infrastructure and **scaling** needs in AWS (EC2 instances) for daily operations.
* Implemented Infrastructure as a Code using **CloudFormation/Terraform** for new application onboarding.
* **End to End AWS** platform maintenance from Networking (**VPC, Route53**), Load balancer, EC2, Lambda, Database (S3, RDS, Dynamo DB) to AWS **Cost Management** for the company.
* Built application and deployed in **AWS Lambda** by integrating with API Gateway.
* Identified means to reduce and control expenses by conducting cost, schedule and contract **performance analysis** and improving resource allocation.
* Prototyped data extraction platform with API for the customers using python and AWS services with extended security with **S3 KMS encryption.**
* Generated leads at scale for clients by scraping websites using **python scripting**.
* Integrated **AWS Redis cache** cluster for faster processing of application.
* Developed strategies, **budgets,** and deployment plans to inform and influence management and stakeholders.
* Built **Chatbots** using Twilio and Google Dialog flow for a customer.

**Technical Lead – (Devops Engineer)** (June’16 – Aug’17) at CTS [**https://www.cognizant.com**](https://www.cognizant.com)

**Client: Discover Bank Region: NAM**

* Configured, installed, and tuned **Java based applications** in WebSphere for performance in Oracle databases in RHEL Linux systems.
* Certified **AWS Cloud practitioner** as a part of organization upskilling program and involved in **migration** of applications from traditional datacenter to AWS cloud.
* Lead the team in fixing and tracking issues (HP ALM) for better operation.
* Monitored automated build and continuous software integration process (CI) to drive build/release (CD) failure resolution using **Jenkins, Gradle, SonarQube and Ansible**.
* Worked closely with software development and testing team members to **design and develop** robust solutions to meet client requirements for functionality, scalability, and performance.
* Interfaced with cross-functional team of business analysts, developers, and technical support professionals to determine comprehensive list of requirement specifications for new **application build**.

**Senior Project Engineer – (Infrastructure Support))** (Dec’12 – June’16) at **Wipro Technologies**

 **Client: Citi Bank** [**https://www.wipro.com**](https://www.wipro.com/)**/ Region: NAM, EMEA, APAC, LATAM**

* Delivered critical infrastructure projects by working closely with various application managers / teams, solution architects, architects, service delivery on-shore & off-shore teams by gathering requirements and implementing it.
* Subject Matter Expert in Application Hosting, Maintenance, SSL certificate renewals.
* Driven team to identify, investigate data analysis(log) to achieve goals and improve Customer Satisfaction as a BAU.
* Manage, Integrate, Deploy & Troubleshoot IBM WebSphere & Web Logic applications deployed on a large-scale in Solaris/Linux platform application.
* Migrated applications to Linux VMware from Solaris servers.
* Lead the team for COB/DR (Continuity of Business) tests for major applications through alternate Datacenters and successfully completed.
* Automated log archival process using Shell scripting in internal applications.
* Planned and implemented SSL upgrades to system software which could result in handshake failures/downtimes.
* Made and submitted reports detailing finding and any actions taken.
* Interfaced with customers and developers to diagnose problems and implement configuration requirements and solutions.
* Received **“Instant Karma”** (Best Performer) from Citibank Director during Townhall meeting for 2 years in a row. (2014,2015)

**EDUCATION**

**Master’s in Data Analytics** Jan 2018- Jan 2019 Dublin Business School, Dublin, Ireland Grade- **1:1**

**B.E in Electronics and Instrumentation** 2008-2012 Anna University, IndiaGrade**- 2:1**

**Extra curricular**

* Regular attendee for the **meetup events** around Dublin [Machine Learning Dublin, AI Ireland, Data & Analytics Chat, PyData]

I honestly declare that all the above details are true to my knowledge.

**Reference available on request Madhana Balasubramanian**