

# HARSHAVARDHAN BODDETI

Denton, Texas, USA

+15712838727 hv.boddeti@gmail.com linkedin.com/in/harshavardhanboddeti CloudPortfolio/HarshaBoddeti

## About Me

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I'm a **Cloud and DevOps Engineer** with a **Master's degree in Information Systems and Technology**, bringing hands-on experience in building and automating **scalable infrastructure**. I'm skilled in **AWS, Docker, Kubernetes, Python, SQL**, and modern **DevSecOps** practices like **CI/CD pipelines, Infrastructure as Code (using Terraform)**, and **container orchestration**. I have a strong background in managing **relational databases**, writing **automation scripts**, and applying **SDLC principles** to create **cloud-native solutions**. I'm passionate about delivering **secure, reliable, and efficient systems** with cutting-edge **cloud technologies**.

## Technical Skills

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**Programming Languages:** Python, JavaScript, SQL, Bash  
**Cloud Platforms:** AWS (S3, EC2, IAM, Glue, EMR, Redshift, Athena, Kinesis)  
**Infrastructure as Code:** Terraform, YAML, CloudFormation (basic)  
**CI/CD & DevOps Tools:** Jenkins, GitHub Actions, Docker, Kubernetes, SonarQube, Vault  
**Monitoring/Logging:** Prometheus, Grafana, ELK Stack, AWS CloudWatch  
**Scripting & OS:** Bash, Shell Scripting, Linux Administration  
**Version Control:** Git, GitHub, GitLab  
**Data Visualization Tools:** Tableau, Power BI, Microsoft Excel, Google Sheets  
**Development Tools:** VS Code, Jupyter Notebooks, Postman

## Experience

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### TATA Consultancy Services

Aug 2021 – Jul 2023

*DevOps Engineer*

*Hyderabad, India*

- Led DevOps initiatives for the DaVita Nautilus healthcare platform by automating infrastructure provisioning using Terraform and AWS CloudFormation, resulting in faster and more reliable environment setup.
- Developed CI/CD pipelines using Jenkins and GitHub Actions to automate build, test, and deployment, reducing deployment time by 40% and minimizing manual intervention.
- Containerized application components using Docker and deployed services to AWS ECS, ensuring consistent and scalable production environments.
- Configured and managed Kubernetes clusters to orchestrate healthcare microservices with high availability.
- Set up end-to-end monitoring and logging pipelines using AWS CloudWatch, Prometheus, and Grafana to ensure service uptime and visibility.
- Automated deployment of ETL jobs using AWS Glue triggers and IAM-based access policies for secure data handling.
- Collaborated with cross-functional teams (Dev, QA, Data Engineering) to streamline deployment workflows, which improved deployment success rates and team coordination.

### Cognizant Technology Consulting

Apr 2021 – Aug 2021

*Data Analyst Intern*

*Bangalore, India*

- Performed exploratory data analysis and generated business insights using Python (pandas, matplotlib) and SQL for a market trend analysis project.
- Designed interactive dashboards in Power BI to visualize key performance metrics and support data-driven decision-making.
- Developed Python scripts for data cleaning, transformation, and report automation, improving reporting accuracy and efficiency.
- Worked with AWS S3 for data storage and retrieval as part of cloud-based data processing workflows.
- Participated in Agile team ceremonies and collaborated with cross-functional teams to deliver client-ready analytics solutions.

## Projects

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### Voice-Assisted Navigation for the Visually Impaired | AWS (Lambda, Polly, S3, API Gateway), Terraform, GitHub Actions, J

- Developed a serverless voice-assist system to help visually impaired users receive audio feedback based on real-world images or GPS data.
- Used AWS Polly for text-to-speech conversion of location and object detection data, enabling real-time guidance via smart devices.

- Deployed API endpoints using AWS API Gateway and Lambda, with file handling via S3 triggers and secure IAM-based access.
- Automated infrastructure deployment using Terraform, provisioning S3 buckets, Lambda roles, and API Gateway endpoints.
- Implemented CI/CD using GitHub Actions and Docker for testing and deploying Lambda functions to AWS.

#### **Disease Prediction System** | *Python, scikit-learn, SQL, Pandas, Power BI*

- Built a machine learning model to predict diseases based on patient symptoms and historical health records.
- Extracted and cleaned structured data using SQL; performed preprocessing and exploratory analysis using Pandas and Matplotlib.
- Trained multiple models (Random Forest, Logistic Regression) with cross-validation and hyperparameter tuning, achieving 90%+ accuracy.
- Automated prediction pipeline in Python for batch and real-time inference scenarios.
- Visualized patient risk levels and prediction insights via Power BI dashboards to aid clinical decision-making.

### **Education**

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#### **University of North Texas**

**Aug. 2023 – May 2025**

*Master of Science in Information Systems and Technology*

*Denton, TX*

- Relevant Coursework: Cloud Computing Architecture, DevOps & Agile Methodologies, Advanced Database Systems, Data Engineering, Machine Learning for Information Systems, System Analysis & Design
- Research Project: Scalable Data Processing with Apache Spark on AWS EMR for health analytics use cases.
- Hands-on Work: Deployed cloud-native apps on AWS using Terraform, Docker, and services like AWS Lambda and API Gateway as part of academic labs and projects.

#### **Raghu Engineering College**

**Aug. 2017 – May 2021**

*Bachelor of Technology in Computer Science and Engineering*

*Visakhapatnam, India*

- Core Subjects: Data Structures, Algorithms, DBMS, Operating Systems, Web Technologies, Software Engineering, Object-Oriented Programming
- Capstone: Built a database-driven application with Python and MySQL, demonstrating full SDLC lifecycle implementation.

### **Certifications**

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#### **AWS Certified Cloud Practitioner**

**Issued by Amazon Web Services**

#### **Data Engineering on Google Cloud Platform**

**Coursera / Google Cloud**

#### **The Ultimate MySQL Bootcamp**

**Udemy**

#### **Node.js – The Complete Guide**

**Udemy**

#### **Angular – The Complete Guide**

**Udemy**