Sri Kotharu

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Summary

Results-driven **Python Cloud Engineer** with 4 years of experience designing and developing scalable serverless applications in AWS cloud environments. Proficient in Python, AWS Lambda, Django, Frontend frameworks, Database, and CI/CD pipelines, with a proven track record of delivering secure, high-availability solutions across diverse business domains. Skilled in automating infrastructure with CloudFormation, Terraform, and Boto3, and optimizing performance through event-driven architecture and data workflows.

Technical Skills

Backend: Python, Java, Django Framework, REST API, Boto3, Node Js | **Databases:** SQL, Dynamo DB, Amazon RDS, PostgreSQL

Frontend: React, JavaScript, Bootstrap, HTML5, CSS3 / **Visualization & Monitoring:** Tableau, Service Now

Cloud & DevOps: AWS (Lambda, EC2, S3, SNS, SQS, API Gateway, Step Functions, RDS, Event Bridge, Cloud Watch, Cloud Front), Docker, Kubernetes, Terraform, Jenkins, Git, SonarQube | **Scripting:** Unix, Python, PowerShell

Experience

Software Engineer - Cloud, Virufy   Mar 2024 - Present
Tech Stack: Python, React, Aws Lambda, S3, EKS, Django Framework, Jira, Confluence, Swagger

- Developed serverless web apps using Python, AWS Lambda, DynamoDB, and the Serverless Framework to automate data workflows.
- Designed highly responsive UI using Bootstrap and Django, leading to 35% increase in customer engagement.
- Created RESTful APIs with API Gateway and Step Functions, enabling event-driven architecture with S3, SNS, and SQS integrations.
- Enhanced cloud performance and security by scripting IAM automation, CloudWatch alerts, and scheduled EC2/RDS operations using Python and Boto3.
- Integrated AI-driven data analysis into serverless applications using Python and AWS Lambda, enabling real-time processing of health-related insights to Virufy's app of AI-powered disease detection.

Software Developer, C-HIT, Ellicott City, MD   Aug 2023 - Feb 2024
Tech Stack: Python, React, Docker, Unit Testing, REST API, Dynamo DB, DB, Step Functions, Kinesis

- Developed and deployed Python-based AWS Lambda functions as RESTful APIs using API Gateway and Kinesis Streams for asynchronous data processing.
- Designed serverless microservices and optimized Step Function pipelines with Docker to boost and streamline orchestration to scale the performance of internal insurance claims portal applications.
- Created and maintained infrastructure as code using AWS CloudFormation and Terraform for automated and consistent cloud deployments.
- Automated backend workflows by integrating Lambda with SNS, SQS, and RDS using Boto3, improving system reliability.
- Achieved 90% code coverage on critical AWS Lambda modules using unit testing in Python and implemented BDD practices to reduce regression issues by 55% in serverless workflows.

System Engineer-1, Atos Global IT Solutions, Chennai, IN   Jun 2019 - Aug 2021
Tech Stack: ServiceNow, Java, L1/L2 Support, Incident Management, 24/7 Monitoring, Nextgen, Grafana

- Built and maintained Java applications while streamlining CI/CD pipelines with Jenkins, boosting delivery speed.
- Monitored systems using Grafana, Nagios, and ServiceNow to ensure 24/7 uptime and fast issue resolution.
- Led L2/L3 production support and resolved critical outages within SLA, enhancing infrastructure reliability.

Software Engineer Intern, BSNL, Hyderabad, IN   Dec 2018 - April 2019
Tech Stack: Python, Logging Module, Networking, WAN, VPN, 24*7 Production Support, Mobile Applications

- Assisted configuration and management of WAN and VPN infrastructure for secure, high-performance connectivity.
- Developed and Documented Python scripts using the Logging module to monitor network performance.

Education

Master of Science in Computer Science   Aug 2021 - May 2023
University of North Texas, Denton, TX   GPA: 4/4

Bachelor of Technology in Computer Science   June 2015 - June 2019,
Gayatri Vidya Parishad College of Engineering, Visakhapatnam, India   GPA: 3.88/4