Isai Martinez

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PROFESSIONAL SUMMARY

Fullstack Software Engineer with over 2 years of experience in developing Java and SpringBoot applications. Demonstrated expertise in deploying applications using CI/CD pipelines with Jenkins in both monolithic and microservice architectures. Proficient in creating and debugging Bash scripts, with professional experience deploying and managing applications on Linux servers, ensuring high availability through configuration across multiple data centers. Skilled in cloud development, with a strong focus on AWS services and involvement in challenging cloud projects that showcase cloud computing capabilities.

CORE COMPETENCIES

- Java, Spring Boot, Microservices
- HTML, CSS, JavaScript & React
- Jenkins

- Bash Scripting
- AWS Lambda
- Amazon S3

- Cloud Development Kit
- Linux
- CI/CD

PROFESSIONAL EXPERIENCE

MCLEAN, VIRGINIA, US
SENIOR Java Developer, July 2022 to Present
Hexaware: Server Upgrade and Database Migration

- Utilized Java and Spring Boot for developing and maintaining business applications.
- Implemented continuous integration and deployment pipelines using Jenkins to deploy applications across production and lower environments.
- Developed and debugged Bash Scripts ensuring compatibility with upgraded RHEL server versions.
- Contributed to a critical RHEL Server upgrade for key business applications, ensuring minimal downtime (with a HA failover standby server) and optimal performance post-upgrade.
- Contributed to a successful database migration project from Sybase to PostgreSQL, including significant code changes to existing applications especially in the already present C/C++ code.

VoiceCraft

- Designed and implemented an AWS API Gateway that triggers a Lambda function running a Python script.
- Script processed text input and used AWS Polly to convert text to audio, storing the resulting audio files in an S3 bucket.
- Developed a frontend application using HTML, CSS, and JavaScript, hosted on an EC2 instance along with an Apache Web Server.
- Leveraged AWS SDK for JavaScript to interact with the S3 API, enabling the frontend application to display and play audio files stored in S3.
- I wrote an article for this project:
  https://medium.com/@isaimartinez52/text-to-speech-project-d142a9e90218

Full-Stack React & Java SpringBoot Microservice Application with AWS

- Designed a scalable application utilizing a Microservice architecture with Java and Spring Boot.

- Implemented AWS infrastructure using the AWS Cloud Development Kit (CDK), incorporating services such as Amazon VPC, Amazon ECS with Fargate, Amazon Application Load Balancer, Amazon S3, and Amazon RDS.
- Deployed the application using Docker containers orchestrated on Amazon ECS.
- Configured Service Connect for efficient service discovery and registration.
- Established a CI/CD pipeline with GitHub Actions to automate the deployment process. The pipeline includes automatic containerization, pushing images to Docker Hub, and deploying updates to AWS upon changes in any microservice.
- Developed a responsive frontend user interface using React and TypeScript.

Bastion Host-CloudFormation Project
- Implemented a secure and highly available infrastructure using AWS CloudFormation, following best practices and industry standards
- Designed a VPC (Virtual Private Cloud) with two availability zones and properly configured public and private subnets, ensuring high availability and fault tolerance
- Deployed a bastion host in a public subnet, connected to an internet gateway and protected by robust security groups, to provide secure access to private resources
- Configured and managed SSH key pairs to enforce strong authentication and enable secure communication with servers
- Provisioned an EC2 instance and an RDS (Relational Database Service) server in the private subnets of each availability zone, ensuring data security and isolation

EDUCATION AND CREDENTIALS

BACHELOR DEGREE IN COMPUTER SCIENCE, 2020
Northern Arizona University, Flagstaff, Arizona

TRAININGS AND CERTIFICATIONS:
- AWS Solutions Architect Associate
- AWS Cloud Practitioner Foundational
- Certified SAFe® 6 AgilistCertified

ADDITIONAL INFORMATION

Languages: English (Fluent), Spanish (Fluent)
Honors: Lumberjack Scholarship
Interests: Soccer, Health & Fitness, Dancing, Guitar

LinkedIn: www.linkedin.com/in/isai-martinez

Portfolio: https://wapo-coding.netlify.app/