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Skills

Languages: Python | Java | C# | C++ | SQL | HCL/Terraform **Development:** Git | Docker | Kubernetes | CI/CD | LLM | .NET |

Micronaut | Java Spring | Junit | REST API | Bitbucket | Grafana

AWS: S3 | IoT | Lambda | CLI | Cloudwatch Alarms
OCI: S3/ADB | Network | CI/CD Pipeline | Instances | WFaaS |
GenAI/RAG | Load Balancer | CLI | LLM

Work Experience.

Oracle Cloud Infrastructure - Media Services

Austin, TX

Software Developer II

September 2024 - Present

- Learned to design high-level and low-level file metadata extraction system with AI integration for media assets while prioritizing customer business needs of global file storage and instant global access.
- Created **AI conversation agent** using an internal agent builder framework, **WayFlow Core**, and provided various **OCI GenAI** and open source **LLM** Endpoints while also utilizing **RAG and custom libraries** to generate metadata information about media assets.
- Created custom **OCI images** via **CLI** for WebUI and Admin nodes of Diskover, a metadata extraction software, to distribute these nodes.
- Improved test coverage by **68%** using **Micronaut framework** annotations by implementing relevant control plane **integration tests**.
- Implemented secure client-to-server API traffic with mTLS certificate verification over TCP connections, protecting 100% of API requests between client requests and Oracle Managed Kubernetes (OMK) API pods via a proxy DNS and load balancer.
- Deployed **OCI load balancer** in OMK via **Helm charts**, configured cluster and network parameters, and monitored pod health to ensure high availability and failover for API services, achieving **32%** faster request processing.
- Automated Cloud Infrastructure deployment resources such as Virtual Cloud Networks (VCN), Subnets, Virtual Machines, Identity policies, Object Storage, and many more using Terraform/ HCL, an IaC language, to create control plane resources.
- Provisioned a public subnet within an **OMK** cluster to enable load balancer routing for public incoming traffic from a proxy server.
- Built isolated test environments by pulling **Docker** container images to run integration tests in controlled instances.
- Authored **Dockerfiles** to package resources into optimized Docker images and published images to **OCI Artifactory** for deployment.
- Conducted five-part benchmarking for Tigris, a global storage software, by developing custom scripts to measure availability and response times, testing cross-region performance with **S3** storage and retrieval.
- Automated database **schema migrations** on **Oracle Autonomous Database** using **Liquibase** schema change logs, ensuring consistent schema updates across environments.

Pacific Biosciences San Diego, CA

Software Engineer II

March 2023 - November 2023

- Implemented a **on-prem to cloud dashboard data migration agent** utilizing **C#** in **.NET**, applying dependency injection to isolate components and using principles like **encapsulation** to provide a more secure and testable software.
- Established a secure connection to **AWS IoT Core** using **MQTT**, leveraging **mTLS** authentication to ensure encrypted communication.
- Created a directory scanner that triggers a callback function to upload payload to **AWS S3** when subscribed topics are published to.
- Transferred unorganized file data from **S3** buckets to filtered Data Warehouse service using **AWS lambda functions** as a trigger event and **SQL** statements in **Snowflake** as storage instructions.
- Displayed organized data using **Sigma** (PowerBI tool) to display analysis metrics for customers in an interactive, digestible format, leading to a **32%** increase in customer user experience.
- Engineered real-time monitoring dashboards by integrating AWS Loki logs with Grafana, decreasing mean detection time by 73%

Software Developer Engineer

Amazon

San Diego, CA May 2022 - March 2023

• Implemented components of application using Amazon's internal **Service-Oriented Architecture** to orchestrate **API** calls to enable

- cross-ledger debt offset and recovery project that retrieved \$13M USD in India after one year.

 Developed automated integration tests to ensure accuracy of ledger balance updates for seller accounts using mock to simulate ex-
- ternal API interactions leading to a **27%** increase in ledger balance accuracy.

 Configured **AWS CloudWatch** alarms to provide alerts on metrics and latency of workflows, services, and API calls for proactive perfor-
- mance management, enforcing **30 minute** response times.

 Performed on-call duties such as responding to alarms and maintaining **CI/CD** pipeline readiness for all phases of deployment.
- Engineered Low-Level Designs detailing workflow process for retrieving balances and functions to offset them.

Illumina
Full Stack Software Engineer

San Diego, CA

- Full Stack Software Engineer

 October 2021 April 2022

 Developed high-performance DNA sequencing and analysis software using the MVVM (Model-View-ViewModel) architecture in C# on the .NET Framework, leveraging WPF to deliver an intuitive user interface that enhanced workflow efficiency and reliability.
- Captured error handling between server of the new platform using message dialogues in **C#** resulting increased UI experience by 37%.
- Validated inputs of the equipment using **REST API** calls made to the server and cross-referenced with local input list.
- Constructed automation framework for JAMA test cases using **C#** to aid Software Test Engineers in the testing process.

Education

University of California San Diego

La Jolla, CA