

ADITYA JAIN

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EXPERIENCE

Oracle Inc, *Software Developer 2, Oracle Cloud Infrastructure Logging Team*

Dec 2020 - Present

- Develop and enhance critical Logging Service modules for ingestion, streaming and storage of logs from different OCI services and resources.
- Own streaming agent component of Logging Service ensuring efficient and reliable log shipping from customer instances to logging service.
- Lead and manage a high-performing team of 3 Engineers, conducting weekly syncs, daily scrums, and overseeing technical interviews.
- Drove performance improvements by implementing a custom Jackson deserializer and designing optimized modules, resulting in a 6.27% reduction in latency for Audit logs.
- Architected and deployed infrastructure for new service bootstrapping across all OCI regions, encompassing load balancer configuration, VM provisioning, DNS setup, and automating live traffic redirection from old service endpoints to the new service by flipping the DNS.
- Made various microservices services, running in substrate and overlay, *Realm* and *Region agnostic* for new region build automation.
- Developed scripts to generate and reassign Kafka partitions for gracefully adding and replacing Kafka brokers.
- Implemented changes in various logging agents/ services to run on Virtual Machines with different architectures (AMD x86-64, arm aarch64).
- Built comprehensive Grafana dashboards, leveraging emitted metrics, to track and analyze the health and performance of various microservices and implemented a library to automate dashboard change deployment to all OCI regions/ realms.
- Mentor and help onboard engineers across multiple levels, creating comprehensive onboarding documents, delivering cross-team sessions on the architecture of the logging ingestion service and various microservices.
- Created Technical Design Documents for numerous projects demonstrating architecture, test, and execution plans.

Barclays, *Software Developer, Wholesale Lending Infrastructure Team*

July 2020 - Dec 2020

- Collaborated with cross-functional teams to develop and enhance Barclays' internal loan management system.
- Developed and integrated a Single Sign-On (SSO) module, streamlining the authentication process, and reducing login time for users.
- Conducted in-depth code profiling and implemented caching techniques, resulting in a ~40% reduction in response time.
- Performed rigorous testing, and identified and fixed critical bugs, resulting in a 26% reduction in the post-release bug report.

Amazon Web Services, *Software Development Engineer Intern, DynamoDB Control Plane Team*

June 2019 - Aug 2019

- Developed dynamic policies for DynamoDB in Java to scale splitting of partitions and allocate sufficient partitions to user tables in DynamoDB.
- Developed a Unix tool to render these policies with a 3-level fallback mechanism to handle provisioned throughput requirements in DynamoDB.

Nokia Networks, *Software Engineer - GET, NOKIA Software NetAct*

July 2017 - July 2018

- Developed and implemented Nokia's Virtualized Network Management System - NetAct's Fault and Performance Management pipeline using Java, Python, Shell Scripting while working in an agile development environment.
- Created real-time dashboards, automated reports refreshing, using Rest API, Python scripts, Power BI, to analyze the pipelines.
- Developed various web-based business applications for the Services Business Unit using C#, SharePoint.

Nokia Networks, *Software Engineer Intern*

Jan 2017 - June 2017

- Integrated AODV routing protocol alongside the detection algorithm to mitigate network routing issues in a Mobile Ad-hoc Network (MANET).

IBM, *Software Developer Intern, Worklight Team*

June 2015 - July 2015

- Developed various modules of a new Road User Charging (RUC) system, in Java, to be deployed for the Government of Norway.
- Designed a self-service interface in the app, using JavaScript, Worklight plugin, to help automate toll collection and number plate recognition.

New York University, *Teaching Assistant - Cloud Computing*

Sept 2019 - May 2020

- Gave lectures and demos on various course modules such as *Kafka*, *ElasticSearch*, and various *AWS Services*.

EDUCATION

New York University, Master of Science – Computer Science, GPA: 3.704/ 4

Sept 2018 - May 2020

VIT University, Vellore, Bachelor of Technology – Computer Science and Engineering

July 2013 - May 2017

SKILLS

Languages: Java, Python, SQL, C++, HTML, CSS, JavaScript, D3.js, PHP

Tools/Environments/Platforms: AWS, Shell Scripting, Kafka, Hadoop, Spark, Kubernetes, Docker, Git, Jira

LEADERSHIP AND COMMUNITY INVOLVEMENT

J.J. School of Education Underprivileged Literacy Program, *Sponsorship Lead*

July 2017 - Present