ADITYA JAIN

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EXPERIENCE

Oracle Inc, *Senior Software Developer, Oracle Cloud Infrastructure Logging Team*   **Dec 2020 - Present**
• Developed key modules of the OCI Logging Service that ingests more than *16 billion* requests and *35 Peta Bytes* of logs every week.
• Owned and enhanced streaming agent component for efficient and reliable log shipping from customer instances to OCI Logging service.
• Designed a scalable solution incorporating Distributed Cache, Distributed Locks, Pagination on API calls to enable search of Audit logs for OCI Teams to understand the traffic movement inside the OCI network during security incidents.
• Reduced Latency of Log Ingestion by *6.27%* by caching to minimize network calls, adding LBs and Kafka brokers, increasing thread count, optimizing JVM performance using G1GC.
• Architected and deployed infrastructure for new service bootstrapping in all OCI regions, encompassing Load Balancers & VM provisioning, DNS setup and seamless migration of live *~2.7 TBPM* custom log traffic from old service endpoints to new service by flipping the DNS.
• Led and managed a high-performing team of 4 Engineers, conducting weekly syncs, daily scrums, and overseeing technical interviews.
• Enhanced Region build automation by eliminating snowflakes, making services/ agent region agnostic, adding capabilities to check dependencies on other teams, and ensuring consistent deployments throughout.
• Developed scripts to generate and reassign Kafka partitions for gracefully adding and replacing Kafka brokers.
• Built various Grafana dashboards, leveraging emitted metrics, to track and analyze the health and performance of various microservices.
• Mentor and help onboard engineers across multiple levels, delivering cross-team sessions on the architecture of the logging ingestion service and various microservices.

Barclays, *Software Developer, Wholesale Lending Infrastructure Team*   **July 2020 - Dec 2020**
• Collaborated with cross-functional teams, leading enhancements for Barclays' internal loan management system.
• Developed and integrated a Single Sign-On (SSO) module, streamlining the authentication process, and enhancing user experience.
• Conducted in-depth code profiling and implemented caching techniques, resulting in a *~40%* reduction in response time.
• Instituted rigorous testing methodologies, identifying and rectifying critical issues, which slashed post-release bug reports by 26%.

Amazon Web Services, *Software Development Engineer Intern, DynamoDB Control Plane Team*   **June 2019 - Aug 2019**
• Optimized partition management, addressing peak throttling challenges posed by partitions exceeding 3000 Logical I/O per second.
• Developed dynamic policies, in Java, to scale splitting of both single and multi hotkey partitions and allocate sufficient partitions to user tables.
• 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.
• Envisioned and implemented real-time dashboards and reports, streamlining pipeline analysis using Rest APIs, Python scripts, Power BI.
• 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, 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**