

Thilina Keshan Ilangasinghe

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Skills

Languages: C/C++, Java, Python, SQL

Technologies & Tools: AWS, EC2, S3, Kafka

Work Experience

Adobe, Bangalore

Mar 2021 - Present

Computer Scientist

- Led the migration of Hive and Presto jobs from Qubole to AWS EMR, enhancing availability and significantly reducing operational costs.
- Reduced the cost involved in running custom reports service by more than 80% by devising an automated system that identified and disabled reports with no usage or empty data.
- Led a cost-saving initiative by identifying unused AWS resources and establishing S3 bucket expiration policies, leading to an annual cost reduction exceeding \$50,000 in AWS expenditures.
- AWS, EC2, S3, EMR, Hive, Presto, Qubole, Kafka, Druid, Zookeeper, MySQL, Kubernetes, Docker, Bazel

Amazon, Bangalore

Sept 2019 - Mar 2021

Software Development Engineer

- Worked on migrating ML workflows to Native AWS, enabling automated scalability based on workload demands and improving the logging and troubleshooting capabilities.
- Developed a customized batch workflow plugin for an external team to help them save upto \$6MM in human labelling cost for their ML experiments. This was achieved by auto labelling high confidence records using our ML models.
- Java, Python, TypeScript, AWS Step Functions, AWS Batch, Lambda, S3, DynamoDB, EC2, SQS, SNS, AWS CDK, AWS Athena, Elastic Search, LightGBM, TensorFlow

Morgan Stanley, Bangalore

Aug 2017 - Aug 2019

Technology Associate

- Built a visualization tool to group contextually related infrastructure alerts (issues) to reduce the Mean Time to Resolution. Modeled the infrastructure dependencies as a graph problem and used graph algorithms like BFS, Union-Find to show the visualization and identify the root cause for a bunch of alerts.
- Developed a Machine Learning powered solution to predict the likelihood of a production deployment resulting in an emergency reversion.
- Python, Flask, ReactJS, Redux, Angular, d3, Kafka, DB2, scikit-learn

Education

University of Moratuwa

2010 - 2014

B.Sc. in Electronics and Telecommunication Engineering

G.C.E Advanced Level

2009

Combined Mathematics (A), Physics (A), Chemistry (A)

District 1st Place - Anuradhapura District

Awards and Certificates

- **AWS Certified Solutions Architect - Associate**, January 2022
- **LCH M CCP Implementation** (team award - Developer) - **LSEG Technology CEO Excellence Award**, 2019
- **Cloud Security - ATOM Crypto Exchange** (team award - Developer) - **LSEG Technology VIP (Values in Practice) Award**, 2021