

# Venkataraman Ramamoorthy

Cloud Data Engineer - Python

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## Summary

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Experienced software engineer, with specialization in data engineering and infrastructure as code on AWS. Experienced in a variety of technologies; building machine learning pipelines on scalable AWS cloud infrastructure; build interactive API's to expose machine learning algorithms securely for intended users. Expertise in skillfully using python and a clean coder of the same.

Thrilled by new technologies and open source tools. A fun person to engage in conversation about application of technologies and interesting design patterns.

## Skills

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**CloudInfrastructure** AWS, CloudFormation, Fargate, Lambda, EC2, CircleCI, Continuous Delivery, Terraform, Codebuild,  
**DataEngineering** Python, SQL, Athena, Airflow, Data Pipelines, Postgres, MySQL, Aurora, S3, Snowflake  
**Process** TDD, Agile

## Experience

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### Cloud Data Engineer - Tata consultancy Services

*London, United Kingdom*

*Jan. 2018 - Present*

- Technology lead in a new Data science/Machine learning team to productionize algorithms
- Designed and implemented on cloud machine learning pipelines using lambda, Containers, EMR, DynamoDB, CloudSearch, Sagemaker and step functions
- Championed experimentation and the creation of bespoke big data pipelines, to enable deeper understanding of experiment results
- Established engineering best practices, including TDD and pair programming
- Enabled better monitoring of results through Datadog
- Enhanced supportability of products through CloudWatch alerts and Sentry error reporting

### Big data developer - Tata consultancy Services

*Chennai, India*

*Feb. 2017 - Dec. 2017*

- Data ingestion on Cloud data lake, commissioned on AWS
- ETL managed by AWS lambda, ECS, EMR and step functions
- Build ETL pipelines using pyspark on Cloudera. Later actively involved in migration towards EMR
- Orchestration of pipelines using oozie and step functions
- Landing domain specific data into data lake on S3 to be consumed by wider teams
- leverage hive data store for both internal and externally managed tables
- usage of athena for adhoc data analytics

### Automation Lead - Tata consultancy Services

*London, United Kingdom*

*Jan. 2016 - Feb. 2017*

- Software quality assurance role with specialization in automation testing
- Implemented Automation Framework using Data Driven and Customized framework approaches.
- Reconciliation framework for migration activities
- Developed VB Script using QTP/UFT
- Integrate and run full regression suite between ALM and UFT
- Experience in testing micro-services based application architecture
- Automation framework design and implementation for data Reconciliation testing
- Web based testing using selenium and Cucumber (BDD)

### Automation Engineer - Tata consultancy Services

*Chennai, India/ London, United Kingdom*

*Jan. 2011 - Dec 2015*

## Education

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### Bachelor of Engineering in Mechatronics

*Coimbatore, India*

Sri Krishna College of Engineering and Technology

*2006 - 2010*