



# LONG NGUYEN

DATA / SOFTWARE ENGINEER

 (647) 860 - 9596

 l.nguyen2606@gmail.com

 Oshawa, Ontario, Canada

 [longslvr.world](https://longslvr.world)

## LANGUAGES & TECHNOLOGIES

- Java
- Python
- Javascript/NodeJs
- Amazon Web Service (AWS)
- Apache Spark + Apache Hadoop
- Apache Airflow
- Amazon EMR (AWS)
- Jenkins
- Docker (Familiar)

## KEY SKILLS

- Iterative Software Development Cycle
- Microservices Architecture
- Agile Project Management
- Attention to Detail
- Active Learning

## EDUCATION

### BACHELOR OF COMPUTER SCIENCE

University of Waterloo  
2012-2017

## PROFILE

Energetic and result-focused software engineer with 5 years of experience. My passion is creating clean and beautiful code with cutting-edge technologies as well as building resilient and scalable applications with minimum human intervention.

## EXPERIENCE

### SENIOR DATA ENGINEER

Genesys - Remote

*April 2021 - Present*

- Design and develop Data Pipelines using Apache Spark (Java) and Apache Airflow (Python) running on AWS EMR to satisfy required data compliances (GDPR, Data Retention and Data Deletion)
- Archive and compact data in Parquet format using Apache Spark storing in AWS S3 to maintain integrity for critical analytics data of the company's cloud division
- Maintain and develop FIPS compliance platform built on top of Apache Airflow to support AI teams running machine learning pipelines without an in-depth understanding of EMR
- Mentor junior members through code reviews, documentation and knowledge sharing

### DATA ENGINEER

Genesys - Remote

*March 2020 - April 2021*

- Break down monolithic analytics data pipeline into multiple pipelines using Apache Spark and Hadoop to reduce run time from 23 hours to 12 hours a day
- Develop and maintain a platform built on top of Apache Airflow to orchestrate data pipelines and improve logging for monitoring
- Improve and maintain analytics data pipelines by optimizing EMR cluster fleets and cluster configuration to improve efficiency and reduce costs by half

### SOFTWARE DEVELOPER

Genesys - Markham, ON, CA

*March 2019 - March 2020*

- Break down existing monolith workforce management applications into microservices written in NodeJs and Java
- Rewrite existing on-premise video processing applications in NodeJs and migrate to the cloud using AWS and Docker
- Develop and maintain serverless microservice using AWS Lambda and AWS Step Functions based on usage patterns for cost optimization and maintainability
- Develop and maintain RESTful APIs to increase communication between services

### ASSOCIATE SOFTWARE DEVELOPER

Genesys - Markham, ON, CA

*June 2017 - March 2019*

- Develop new features for existing workforce management on-premise applications
- Assist in splitting user data management services from monolith workforce management applications by implementing RESTful APIs and MySQL database communications
- Research and prototype new technologies (AWS Lambda, NodeJs, Docker) for the new services and standardize bulkhead pattern implementation