

TEJ NAGABHATLA

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EDUCATION

- **University of Waterloo** Waterloo, Canada
• **Bachelor of Applied Sciences (Major: Computer Engineering)** Aug 2013 - May 2018
Specializations: Algorithm Analysis, Artificial Intelligence, Machine Learning, Probability and Statistics

SKILLS SUMMARY

- **Languages:** Java, C++, Python, NodeJS, SQL, Scala, Unix scripting
- **Tools:** Docker, AWS, GCP, GIT, JIRA, Matlab, XCode, Postgres, Jenkins, OpenCV, Tensorflow
- **Frameworks:** Spring, Express

EXPERIENCE

- **LoyaltyOne Inc.** Toronto, Canada
• **Software Engineer** October 2019 - March 2020
 - Worked on the Real Time Calculation and Airmiles Issuance engine and developed RESTful API endpoints for transitioning batch processing of transactions mechanism into the real-time realm using Java, Spring framework and AWS technologies such as Lambda, Cloudwatch, and SQS.
 - Analyzed and evaluated the performance of the RESTful endpoints under various scenarios such as load tests and stress tests based on defined criteria using tools such as RunScope and Splunk.
 - Built Jenkins pipelines to automate the creation of the AWS CloudFormation stack for the application and deployment of dockerized server image on AWS.
- **Zero Gravity Labs** Toronto, Canada
• **Innovation Software Engineer** August 2018 - September 2019
 - Developed computer vision and machine learning algorithms and products in Python and Tensorflow. Built a software that performs unconstrained face recognition in image sets and videos for application in a retail environment using a IoT cluster.
 - Implemented an IOT cluster health monitoring service which is responsible for monitoring the health of all the micro services saving 5 hours per week.
 - Built an Alexa voice app for a retail store using NodeJS and built a REST API for user authentication and data persistence using Python and Express framework. The project reduced the customer call center traffic by a margin of 36%.
- **Bank of Montreal Financial Group** Toronto, Canada
• **Software Developer Intern** August 2016 - December 2016
 - Developed RESTful API endpoints using the Jersey Java Web Services framework by abstracting interfaces to work more effectively with newly added endpoints for BMO SMB web services unit reducing the latency by 25%.
 - Implemented cross platform services by coordinating core server product development in Spring MVC and Spring SOA service components for deployment to client sites, ensuring compatibility with all major browsers on mobile and desktop platforms. Launched to over 1000 clients in a successful pilot.
- **LoyaltyOne Inc.** Toronto, Canada
• **Data Engineer Intern** January 2016 - April 2016
 - Designed and shipped Qlikview and Qlik Sense reports within 3 months. Increased data model efficiency on the reports by 45% by leveraging data relationships across reports.
 - Initiated a ELK Big Data project to processed and performed analysis on large, multi-dimensional datasets to analyze the effectiveness of an advertising campaign.

PROJECTS

- **Real-time Traffic Signal Recognition and Distance Estimation:** Applied machine learning in Python on visual streaming data to predict various traffic signs and distance estimation. Utilized image processing and object detection techniques in Python in conjunction with ROS using MQTT to ensure synchronous interfacing with the remaining autonomous car components.
- **Hybrid Vehicles Energy Management:** Designed a solution for hybrid vehicles energy management system using Iterative Deepening Search, Alpha-beta pruning and Backtracking, MRV and Forward Chaining Artificial Intelligence Algorithms respectively in Python.