

JOYCE C. CHIDIADI

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SUMMARY

I'm an Engineer with a great interest in sifting and shuffling data to build products that benefit businesses and their customers while implementing secure and private data tools in most of the AI/Machine Learning projects I build.

SKILLS

Python Java RDBMS NoSQL	DevOps Docker Jenkins Spark	Data Cleaning/Wrangling/Visualization
Scalable System Design	PyTorch TensorFlow Keras	Machine Learning Deep Learning
Grafana Prometheus	AWS GCP	NLP & Recommendation Systems

EXPERIENCE

Software Designer | Applications Engineer

Dec 2017 - Present

Hexagon Autonomy & Positioning Inc, Calgary, AB

- Lead a team of three software infrastructure engineers to build an intelligent system that detects and mitigates machine failures in the data centre
- Reduced the time for integrating Hexagon A&P products on the customer systems by 10%
- Predicted errors in test equipment using a recurrent neural network by implementing a time-series analysis that helped the team to predict GPS receiver failures before they occur
- Built various dashboards for engineering management to keep track of important business and technology metrics
- Developed a deep learning model that reduces the error in the identification of satellite signal interference in GPS receivers (Patent-pending).
- Reduced software/firmware verification time by automating processes using Python scripts and Jenkins pipelines

Kids' Coding Bootcamp Instructor

Jan 2020-Present

BreezeLearn , Calgary, AB

- Design early learning computer programming introduction course materials for teaching children aged 6 to 14 years old.
- Teach programming fundamentals using various resources including Blockly, HTML, CSS and Python

Independent Deep Learning Consultant

Jan 2020 - Present

Upwork | PeoplePerHour | Fiverr, Calgary, AB

Develop projects for several companies:

- Created a recommendation engine for a real-estate business website using collaborative filtering and a content-based recommendation system
- Predicted business analytical trends for a bike-sharing startup to enable the business to make informed decisions
- Built a text classification model to identify brand and product name for a client

Software Automation Specialist**March-May 2017****Stream Systems, Calgary, AB**

Performed the complete planning, application development, verification and risks involved in software projects using Selenium and Jenkins

Selected Predictive and Cognitive Modeling Projects

- Developed a deep learning morning for “Detecting Satellite Signal Interference in GNSS receivers. This project has a patent-pending status in the United States Patent Office
Implemented in Python and TensorFlow/Keras. Solution provided: 40% time reduction in post-processing of signals for risk detection with 98.8% accuracy
- Predicted customer churn rate for music streaming startup platform using Spark in IBM Watson

EDUCATION

Master of Science in Computer Science Georgia Institute of Technology, Atlanta	Expected 2024
Data Science and Deep Learning Nanodegree Udacity	2020
<ul style="list-style-type: none">• Data Science Certification: https://confirm.udacity.com/DPRTE4AV• Deep Learning Certification: https://confirm.udacity.com/MDH25RP4	
IBM AI Engineering Specialization Coursera	2020
<ul style="list-style-type: none">• Certification: https://www.coursera.org/account/accomplishments/specialization/certificate/PFATAQSCGSY3	
Diploma Software Engineering NIIT Takoradi, Ghana	2015
M.Sc Petroleum Geosciences Institute of Petroleum Studies, Port Harcourt, Nigeria (GPA: 3.88/4.00)	2013
B.Tech Geology Federal University of Technology Owerri, Nigeria (GPA: 3.28/4.00)	2008

VOLUNTEERING**Technology Career Mentor****Calgary Region Immigrant Employment Council****2019-Present**

- Mentor new Canadian immigrants (men and women) with an interest in developing their career paths in the fields of software engineering, data science, and machine learning skills.
- Assist in resume review, offer informational interviews and helpful resources for interview preparation