

WATSON AGBRAMU

SOFTWARE | DATA ENGINEER

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EXPERIENCE

Arctic AI (Formerly Filament AI), Toronto, Ontario — Full-Stack Developer

February 2022 - Present

- Expertly designed and developed ETL pipelines utilizing Azure technologies including Data Factory, Functions, SQL Database, and Blob Storage, enabling efficient data transformation and migration for clients from multiple sources.
- Delivered workshops to educate clients on the Azure platform, providing guidance, documentation, and hands-on assistance to successfully spin up their staging and production environments.
- Built a cutting-edge financial service tool utilizing Node Js, React JS, Flask, Machine Learning, and GCP to meet client's needs for data extraction and deal sheet generation.
- Provided mentorship and guidance to interns, fostering their professional growth and helping them to achieve successful project deliverables.
- Created a customized API using Node Js, Express JS, EBM, and GCP to support client requirements for BRIE chatbot functionality.
- Designed and implemented a database schema, developed API endpoints, and a client-facing portal using React JS, Knex JS, MySQL, and Express JS for Rising Academy.
- Created an optimized, automated python script using Python, Numpy, Pandas, tabula-py, and Camelot-py to streamline data processing and table extraction from pdfs, resulting in significant time and cost savings for clients.

Divergence Neuro, Toronto, Ontario — Web Application Developer

August 2021 - October 2021

- Collaborated with the backend team to develop a client-facing web application using React JS and AWS, integrating API endpoints to deliver a seamless user experience.
- Implemented Progressive Web App (PWA) compliance and integrated service workers to ensure the application's robustness and offline capabilities.
- Developed a customized solution to integrate QR scanner and Bluetooth functionality using React JS, enabling seamless connection to Neurosity devices for users.

Neo Financial, Calgary, Alberta — Software Developer

June 2021 - August 2021

- Developed and implemented complex logic utilizing Node, React, AWS, Terraform, Typescript, GraphQL, MongoDB, and Jest to design and generate credit statements for printing at Symcor.
- Optimized the bank microservice to provide a smooth and efficient payment gateway experience via MasterCard integration.
- Engineered the decider microservice to send declined transactions to a third-party API (Fraud Net) and effectively store responses, utilizing Node, AWS, Typescript, Terraform, MongoDB, and Jest.

University of Waterloo, Waterloo, Ontario — Data Scientist(Masters)

September 2019 - December 2020

- Developed and implemented a dog breed classification model using transfer learning on fine-tuned Inception-Resnet-V2 and Efficientnet-80 architectures, achieving an accuracy of 92.18% and 85.38% respectively on 120 dog breeds.
- Proposed and implemented new annotations for a subset of the INRIA person dataset using Label-Img software, resulting in a significant improvement in detection performance by over 20%.
- Utilized data augmentation techniques in Python to train Faster RCNN models on pedestrian images, achieving an average performance of 89.6% and 86.0% using Inception-Resnet-V2 and Resnet-50 as backbone architectures respectively.

Finklasic, Lagos, Nigeria — Software Developer

January 2018 - July 2019

- Developed an algorithm and automated script to optimize the dispatch of text messages to targeted audiences, resulting in a 30% increase in company revenue.

- Implemented robust documentation and testing procedures, including unit and integrated test cases, to ensure high product quality across all projects.
- Designed the logic flow of a survey administrator tool that processed, collated, and tracked user feedback retrieved via text with a high level of accuracy

SKILLS

- **Programming:** Python, JavaScript (ES6), TypeScript.
- **Web Development:** React JS, React Native, Redux, Express JS, Node JS, GraphQL, RESTful API, HTML, CSS, SCSS, Tailwind CSS, Material UI, Chakra UI, Bootstrap, jQuery.
- **Testing:** Jest, Enzyme, Cypress.
- **Data Analysis:** NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras.
- **Database:** MongoDB, MySQL, PostgreSQL, Firestore.
- **DevOps:** Git, GitHub Actions, Docker, Terraform.
- **Cloud:** AWS, GCP, Azure, Azure Data Factory, Azure DataBricks, Azure Synapse Analytics.
- **Others:** Linux, Heroku, Agile (Scrum).

PROJECTS

- **Crown Enterprise Application:** An e-commerce website created using Express JS, React JS, Redux, SCSS, etc.
- **Natours Application:** A full-stack server-side rendered e-commerce application for booking tours built using Express JS, Pug, CSS, MongoDB, etc.
- **Mailer Application:** Designed a customer feedback application using Express JS, Passport JS, React JS, Redux, CSS, MongoDB, Stripe, etc.
- **ShareMe Application:** Built a full-stack social media application for sharing, saving, and downloading pictures using React JS, Tailwind CSS, Sanity IO, etc.

EDUCATION

University of Waterloo, Waterloo, Ontario — MEng

September 2019 - December 2020

Master of Engineering in Electrical and Computer Engineering, Distinction
Certificate in Business and Entrepreneurship (Conrad School of Business)

Federal University Oye-Ekiti, Oye-Ekiti, Ekiti State — BEng

February 2013 - January 2018

Bachelor of Electrical and Electronics Engineering, First Class Honours

LEADERSHIP AND AWARDS

- Best Overall Graduating Student for the 2016/2017 academic session (Federal University Oye-Ekiti Prize).
- Faculty of Engineering Best Student - 2016/2017 academic session (J.A Soremekun Memorial Prize).
- Represented the Faculty of Engineering (FUOYE) to give a lecture on safety practices in the workplace at FUNAAB.
- Represented the Faculty of Engineering (FUOYE) at a project exhibition at Afe Babalola University, Ado-Ekiti.

CERTIFICATIONS

- **Coursera:** Python Data Structures, Using Python to Access Web Data, IBM Exploratory data analysis for Machine Learning.
- **Data Camp:** Data Manipulation with pandas, Python Data Science Toolbox (Part 1 & 2), Introduction to Data Visualization with Matplotlib.
- **LinkedIn Learning:** Applied Machine Learning: Foundations, React.js Essential Training, React.js: Building an Interface.
- Novelle Innovation Center Basic First Aid/CPR Training Course.
- British International Safety Organization [United Kingdom SHE Organization] (HSE Levels 1, 2, & 3).
- Department of Petroleum Resources Environmental Impact Assessment.
- National Youth Service Corps (NYSC) discharge certificate, Nigeria.