

WATSON AGBRAMU

SOFTWARE ENGINEER

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EXPERIENCE

Filament AI, Toronto, Ontario — Full-Stack Developer

February 2022 - Present

- Designing and creating ETL pipelines using Azure Data Factory, Azure Functions, Azure SQL Database, and Azure blob storage to transform clients' data from multiple data sources.
- Building a financial service tool to cater to CIM extraction and generate deal sheets from financial data using Node Js, React JS, Flask, Machine Learning, and GCP.
- Providing mentorship, professional guidance, and insight to interns on their project deliverables.
- Deployed and created a customized API to cater to clients' BRIE chatbot needs using Node Js, Express JS, EBM, and GCP.
- Designed database schema, created API endpoints, and built a client-facing portal using React JS, Knex JS, MySQL, and Express JS for Rising Academy.
- Created an optimized automated python script to aid data processing and table extraction from pdf using Python, Numpy, Pandas, tabula-py, and Camelot-py.

Divergence Neuro, Toronto, Ontario — Web Application Developer

August 2021 - October 2021

- Worked with the backend team towards integrating API endpoints to develop a client-facing application using React JS, and AWS.
- Enabled PWA compliance and integrated service workers to enable fallback to cache.
- Integrated QR scanner and Bluetooth using React JS for connecting the Neurosity device.

Neo Financial, Calgary, Alberta — Software Developer

June 2021 - August 2021

- Designed logic to create credit statements to be sent to Symcor for printing using Node, React, AWS, Terraform, Typescript, GraphQL, MongoDB, and Jest.
- Optimized the bank microservice to provide a seamless payment gateway via MasterCard.
- Implemented code on the decider microservice to send declined transactions to third-party API (Fraud Net) and store the response using Node, AWS, Typescript, Terraform, MongoDB, and Jest.

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

September 2019 - December 2020

- Created a dog breed classification model with Python using transfer learning on fine-tuned Inception-Resnet-V2 and Efficientnet-80 architectures obtaining an accuracy of 92.18% and 85.38% respectively on 120 dog breeds.
- Proposed new annotations for a subset of the INRIA person dataset using Label-Img Software to improve detection performance by over 20%.
- Performed Data Augmentation using Python and trained Faster RCNN using Inception-Resnet-V2 and Resnet-50 as backbone architecture on pedestrian images obtaining an average performance of 89.6% and 86.0% respectively.

Finklassic, Lagos, Nigeria — Software Developer

January 2018 - July 2019

- Created an algorithm and an automated script to handle the dispatch of texts provided by customers to be sent to their targeted audience.
- Increased company revenue by over 30% through the creation of an automated pipeline to perform tasks.
- Documented and wrote unit and integrated test cases to ensure better product quality across the board.
- Designed the logic flow that was used as a survey administrator which unambiguously processed, collated, and tracked user feedback retrieved via text.

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

SKILLS

- **Programming:** Python, JavaScript (ES6), TypeScript.
- **Web Development:** React JS, Redux, Express JS, Node JS, GraphQL, RESTful API, HTML, CSS, SCSS, Tailwind CSS, Material UI, Chakra UI, Bootstrap, jQuery.
- **Testing:** Jest, Enzyme.
- **Data Analysis:** NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras.
- **Database:** MongoDB, MySQL, PostgreSQL, Firestore.
- **Cloud:** AWS, GCP, Azure.
- **Others:** Git, 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.

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.