Goodness Duru

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EXPERIENCE

LEAD SOFTWARE ENGINEER | Retina-AI Health Inc   **June 2019 - December 2024**

- Led a 7-member engineering team in designing and developing a cutting-edge PACS system with Django, React, and Postgres, leveraging the Google Healthcare API to integrate DICOM with an AI/ML platform.
- Partnered with the CTO and CPO to architect the entire product, proposing the use of Google Pub/Sub to seamlessly integrate the DICOM server with our web application.
- Developed and integrated a Python-based DICOM server with Google Pub/Sub, implementing an innovative authentication method that ensured only registered devices could send retinal images, enhancing security and preventing unauthorized access to the service.
- Took on the role of QA engineer, establishing and enforcing testing protocols with JUnit and Selenium, improving test coverage and stability, while building a robust performance and load testing platform using Locust.
- Created a Python-based CLI tool that simulated various Fundus camera behaviors, accelerating the speed of manual testing by over 10x.
- Developed deep learning models in TensorFlow/Keras to classify diabetic retinopathy grades, achieving greater than 80% accuracy and enhancing diagnostic precision.

SENIOR SOFTWARE ENGINEER | Demz Analytics   **April 2019 - January 2021**

- Led a 5-member engineering team in developing a PDF parser to extract and interpret financial statements from various financial institutions.
- Developed and integrated a content recommendation engine using Python and MongoDB into a video-sharing app, enhancing user engagement by delivering personalized content.
- Suggested and led the implementation of infrastructure optimizations, working with the DevOps team to reduce costs by over 50% within 2 months, improving system performance and efficiency.

SOFTWARE ENGINEER | Freelancer   **January 2016 - December 2020**

- Designed and developed web applications using PHP and MySQL, focusing on efficient, user-friendly solutions.
- Trained and delivered various Computer Vision and NLP models for clients..

TECHNICAL SKILLS

Languages: Python, Rust, C, Go, Javascript, PHP, SQL.

Frameworks & Libraries: Django, React, Flask, Tensorflow, Keras.

Tools & Platforms: Docker, Git, Kubernetes, Ansible, Postgres, MySQL, Google Cloud, AWS.

PROJECTS

youtubesearch | Go   Jan 2025 - Present

- Personal project, developed a library for searching and parsing results from Youtube using only the Go standard library.

simpletorrent | C   Jan - June 2022

- Personal project, developed a Bittorrent client working extensively with BSD sockets and non-blocking I/O.

nitrows | C   Sept 2023 - Jan 2024

- Personal project to understand the WebSocket protocol by building a library that passed the entire autobahn test suite.
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PUBLICATIONS

- Tejumade Afonja, Oladimeji Mudele, *Duru Goodness*, et al. "Learning Nigerian accent embeddings from speech: preliminary results based on SautiDB-Naija corpus (2021)". DOI: https://doi.org/10.48550/arXiv.2112.06199