Joseph Afriyie Attakorah

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📍 **Other:** R23 Community Nine, 00233 Tema (Ghana)

ABOUT ME

Interested in solving technological problems by combining Software Engineering and Machine Learning techniques.

WORK EXPERIENCE

Software Engineer
TradeLink Technologies [08/2021 – Current]

City: Tallinn
Country: Estonia

1. Analyzing, developing, and implementing new features in the Frontend (React/Vue), RESTful APIs in the Backend (Node), the telegram chatbot and trading bot (Python) of TradeLink's crypto trading analytics platform that processes, analyses, and renders data visually.
2. Actualizing a set of mockups into a functioning web app.
3. Performing CI/CD with tools like GitHub actions and docker.
4. Deployments on digital ocean.
5. App monitoring (self-hosted sentry, envoy, Prometheus, pushgateway, Nginx, docker).

Research Assistant (Java Developer)
NRU Higher School of Economics (Huawei Technologies Co. Ltd. - № TC202012080007) [24/01/2021 – 30/10/2021]

City: Moscow
Country: Russia

Developing a Java-based Object-Oriented Programming Language
1. Helped develop a compiler for a new object-oriented programming language called Eolang. I wrote codes for the compiler's runtime standard library and also implemented an interoperability mechanism in the runtime for making it possible to call Java code in Eolang.
2. Helped with writing research articles for publication (https://doi.org/10.1016/j.procs.2021.09.234)

Research Intern
Department of Software Engineering, National Research University Higher School of Economics [05/2019 – 07/2019]

City: Moscow
Country: Russia

- Research Topic- Survey of Human Factors in Crisis Responsive Software Development
- Research Activities - Searched for relevant publications, analyzed related works, created the survey with a case study, and suggested future research directions. Preprint of this work is available at https://arxiv.org/abs/2007.12019

Software Engineer
Overcore Technologies [08/2017 – 09/2018]

City: Tema
Country: Ghana

Website: http://overcoretech.com

1. Web developer - Implemented several web applications for clients (MongoDb, Express, Angular, Node, HTML, CSS, Wordpress, PHP)
   a. performed continuous integration (CI) and continuous delivery (CD) - git, Gitlab, Docker, Nginx, Digital Ocean
   b. Fixed bugs and optimized codes in node ExpressJs REST APIs
   c. Experienced full-cycle project development
2. Project manager - Gathered and analyzed software requirements from clients. Planned and oversaw the execution of software projects.
3. Internship Instructor- Trained two interns

EDUCATION AND TRAINING

MSc System and Software Engineering
National Research University Higher School of Economics [08/2018 – 06/2020]

City: Moscow
Country: Russia
Website: https://www.hse.ru/

- Software engineering methodology, Social Network Analysis, Data analysis, Formal Methods, Advanced Databases, etc
- Thesis: Optical flow estimation based on deep learning approaches (cleaned data, analyzed problem, designed a model for predicting the speed of a car from a dashboard camera video, and trained the model to predict the speed of a car from new dashboard videos). Major tools used include TensorFlow, PyTorch, Python, and OpenCV. The Paper on this work is pending publication.

Site Reliability Engineering: Measuring and Managing Reliability, Credential ID: LET3Z2X26AEX
Coursera [05/2020]

- Service Level Objectives (SLOs), a principled way of describing and measuring the desired reliability of a service.
- Service Level Indicators (SLIs), a way of quantifying reliability and Error Budgets to drive business decisions around engineering for greater reliability. Walked through the process of developing SLIs and SLOs for an example service.
- SLA

Android Developer Training (Java)
Google and Andela {Grow with Google and Andela [ALC 4.0]} [06/2019 – 12/2019]

Website: https://help.pluralsight.com/help/grow-with-google-andela

- Android App Development hands-on training

Mobile Application Developer Mastery Award (IBM) 2016 UNIQUE ID: 2103-1462-4473-3428
IBM [04/05/2016]

Bachelors in Computer Science with Statistics
University of Ghana [30/09/2012 – 13/05/2016]

City: Accra
Country: Ghana
Website: https://www.ug.edu.gh/

- Data structures and algorithms, programming languages, web development, Mobile computing, Operating Systems, Compilers, Statistics, etc

LANGUAGE SKILLS

Mother tongue(s): **English**

PROJECTS

Projects and Publications

Github — https://github.com/jizzel

Master Thesis - Optical Flow Estimation Based on Deep Learning Approaches

Deep Learning Project -Artistic Style Transfer on android (Java) with TensorFlow

Pending Publication - Enhancement of Vehicle Speed Estimation Based on Optical Flow and Deep Learning Approaches

Driving License Document(image) Classification and Text Extraction

Publication - Exploring the Eolang-Java Integration and Interoperability

Publication (arxiv) - Survey on Huaman Factors in Crisis Responsive Software Development

ORGANISATIONAL SKILLS

Organisational skills

- Vice President of Computer Science Student Association-University of Ghana-Legon (COMPSSA-UG). 2015/16

Mediated between students and faculty members and organized events and seminars.

- Vice President of Foundation for leadership Excellence-University of Ghana Chapter (FLEX-UG Chapter). 2014/15 - http://flexglobal.org.uk/

Shared knowledge and inspired people by organizing meetups and seminars. Mobilized a team of fourteen for community service in a remote area.

- Volunteer Mentor for Andela learning group on Google Africa Developer Scholarship ALC 4.0 Phase II (2019)

JOB-RELATED SKILLS

Job-related skills

Programming languages - Java, JavaScript, Typescript, and Python.

Frameworks, Tools, and Technologies - NgRx, RxJs, Signals, Angular, Redux, React, Vue, Pinia, Node, MongoDB, SQL, HTML5, CSS3, JQuery, tailwind CSS, daisyUI, bootstrap, semantic UI, styled-components, Aiohttp, Figma UI design, RESTful services, GraphQL, Apollo Client, WordPress, PHP, Laravel, Algorithms and data structures, Bootstrap, Git, Linux, containerization with Docker, DevOps, Google Cloud Platform, Digital Ocean, Microsoft Azure, software testing, web app development, and android app (java) development, Object-Oriented Programming (OOP), TensorFlow, Pytorch, Machine Learning, OpenCV.

- Problem solver, Self-motivated, and always looking for ways to improve things
- Aptitude and enthusiasm for quickly learning new tools and technology
- Open-minded and a good team player

OTHER SKILLS

Other skills

Table Tennis (Hobby)