Joseph Afriyie Attakorah

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● ABOUT ME

Passionate Software Engineer with over 4 years of experience in developing and implementing innovative features across frontend and backend systems. Proficient in JavaScript, Python, and Java, with expertise in Angular, React, Node.js, and RESTful APIs. Adept at remote work with a proven track record of improving application performance and user experience. Seeking remote opportunities to leverage my skills in a dynamic team environment.

● WORK EXPERIENCE

08/2021 – CURRENT Tallinn, Estonia
SOFTWARE ENGINEER TRADELINK TECHNOLOGIES

1. Developed and implemented new features in the Frontend (React/Vue) and Backend (Node.js), enhancing TradeLink's crypto trading analytics platform.
2. Created a Telegram chatbot and trading bot using Python, improving user engagement by 30%.
3. Translated mockups into a fully functional web app, ensuring a seamless user experience.
4. Managed CI/CD pipelines with GitHub Actions and Docker, reducing deployment times by 25%.
5. Deployed applications on DigitalOcean and monitored performance using self-hosted Sentry, Envoy, Prometheus, Pushgateway, Nginx, and Docker.

24/01/2021 – 30/10/2021 Moscow, Russia
RESEARCH ASSISTANT (JAVA DEVELOPER) NRU HIGHER SCHOOL OF ECONOMICS (HUAWEI TECHNOLOGIES CO. LTD. - № TC202012080007)

• Developed a compiler for a new object-oriented programming language called Eolang.
• Implemented an interoperability mechanism for integrating Java code in Eolang.
• Contributed to research articles and publications (https://doi.org/10.1016/j.procs.2021.09.234).

05/2019 – 07/2019 Moscow, Russia
RESEARCH INTERN DEPARTMENT OF SOFTWARE ENGINEERING, NATIONAL RESEARCH UNIVERSITY HIGHER SCHOOL OF ECONOMICS

• 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

08/2017 – 09/2018 Tema, Ghana
SOFTWARE ENGINEER OVERCORE TECHNOLOGIES

1. Developed and maintained web app solutions for clients (using MongoDB, Express, Angular, and Node and performed CI/CD).
2. Collaborated with cross-functional teams to design and implement new features.

Website http://overcoretech.com

EDUCATION AND TRAINING

08/2018 – 06/2020 Moscow, Russia
MSC SYSTEM AND SOFTWARE ENGINEERING National Research University Higher School of Economics

- Relevant Coursework: Software Development, Machine Learning, Data Structures Software engineering methodology, 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.

Website https://www.hse.ru/

05/2020
SITE RELIABILITY ENGINEERING: MEASURING AND MANAGING RELIABILITY, CREDENTIAL ID: LET3Z2X26AEX Coursera

- 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

06/2019 – 12/2019
ANDROID DEVELOPER TRAINING (JAVA) Google and Andela {Grow with Google and Andela [ALC 4.0]}

- Android App Development hands-on training

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

04/05/2016
MOBILE APPLICATION DEVELOPER MASTERY AWARD (IBM) 2016 UNIQUE ID: 2103-1462-4473-3428 IBM

30/09/2012 – 13/05/2016 Accra, Ghana
BACHELORS IN COMPUTER SCIENCE WITH STATISTICS University of Ghana

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

Website https://www.ug.edu.gh/

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
Publication - Exploring the Eolang-Java Integration and Interoperability
- 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, 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 good team player

OTHER SKILLS

Other skills

Table Tennis (Hobby)