

# Joseph Afriyie Attakorah

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**Phone number:** (+233) 201750533 (Home) | **Email address:** [jaattakorah@gmail.com](mailto:jaattakorah@gmail.com) | **Website:**

<https://attakorah.com> | **Website:** <https://www.linkedin.com/in/jaa24/> | **Website:** [https://leetcode.com/u/attach\\_kay](https://leetcode.com/u/attach_kay) |

**Website:** <https://github.com/jizzel> | **Address:** R23 Community Nine, 00233, Tema, Ghana (Home)

## ● ABOUT ME

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**Software Engineer** with 4+ years of diverse experience in full-stack web development, programming language R&D, and a strong foundation in machine learning. Proficient in a wide range of technologies and skilled in building scalable web applications, RESTful services, secure backend systems, and Telegram chatbots. Proven track record of collaborating with international teams across Europe and Russia, consistently delivering impactful solutions in dynamic, cross-functional projects.

## ● WORK EXPERIENCE

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08/2021 – CURRENT Tallinn, Estonia

### **SOFTWARE ENGINEER** TRADELINK TECHNOLOGIES

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- Enhancing TinkleLink's crypto trading analytics platform by implementing new features on the frontend (React/Vue) and backend (Node.js and python), providing a better user-experience and increasing platform engagement.
- Optimized applications to handle high data traffic by fine-tuning backend processes and applying data compression strategies, which significantly improved system response time (focusing on our SLI/SLO/SLA) and ensured reliable performance under heavy loads.
- Developed a Telegram trading analytics chatbot in Python, integrated with core systems, which streamlined user access to analytics and boosted engagement rates by 30%, enhancing user interaction with trading insights.
- Transformed mockups into fully functional web applications through a seamless integration of frontend and backend components, delivering a smooth, intuitive experience that improved user satisfaction and reduced onboarding friction.
- Managed and automated CI/CD pipelines using GitHub Actions and Docker, cutting deployment times by 25% and ensuring rapid, consistent releases. Additionally, monitored application performance with Sentry, Grafana, and Prometheus to proactively resolve issues and maintain optimal performance.

24/01/2021 – 30/10/2021 Moscow, Russia

### **JAVA DEVELOPER (RESEARCH ASSISTANT)** NRU HIGHER SCHOOL OF ECONOMICS (HUAWEI TECHNOLOGIES CO. LTD. - № TC202012080007)

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- Contributed to the development of Eolang, a new object-oriented programming language, and its compiler, by implementing some core features and the runtime standard library. This enabled efficient translation of Eolang code into executable formats, laying a solid foundation for its adoption in software development.
- Designed and implemented interoperability mechanism to integrate Java code within Eolang by leveraging the Java Reflection API. This facilitated seamless cross-language functionality, significantly expanding Eolang's capabilities within Java ecosystems and enhancing its usability for developers.
- Co-authored several research articles, including a notable publication in *Procedia Computer Science* (<https://doi.org/10.1016/j.procs.2021.09.234>), contributing to the academic community's understanding of programming language development and fostering discussions on best practices and innovations in the field.

08/2017 – 09/2018 Tema, Ghana

### **SOFTWARE ENGINEER** OVERCORE TECHNOLOGIES

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- Analyzed client requirements to design, develop, and maintain robust web applications using the MEAN stack (MongoDB, Express, Angular, and Node.js). Leveraged CI/CD practices to streamline deployment, resulting in faster release cycles and improved application stability for clients.
- Developed a tailored WordPress theme for a client, ensuring a unique and engaging user experience aligned with their brand identity. This solution increased client engagement and provided a flexible, scalable framework for future content updates.

- Provided guidance and mentorship to interns on web development fundamentals, best practices, and modern frameworks. Fostered their technical skills and professional growth, contributing to a more skilled, capable team.
- Worked closely with product managers, designers, and QA teams to design and implement new features that enhanced user experience for a Fintech Web App. This collaborative approach improved feature alignment with user needs and facilitated a smoother development process.

Website <http://overcoretech.com>

## ● EDUCATION AND TRAINING

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08/2018 – 06/2020 Moscow, Russia

**MSC SYSTEM AND SOFTWARE ENGINEERING** National Research University Higher School of Economics

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Website <https://www.hse.ru/>

30/09/2012 – 13/05/2016 Accra, Ghana

**BACHELORS IN COMPUTER SCIENCE WITH STATISTICS** University of Ghana

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

## ● JOB-RELATED SKILLS

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### Job-related skills

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- **Programming Languages:** Java, JavaScript, TypeScript, Python
- **Frameworks and Libraries:** Angular, React, Vue, Redux, NgRx, RxJS, Signals, Pinia, Node.js, jQuery, Tailwind CSS, DaisyUI, Bootstrap, Semantic UI, Styled-Components
- **Backend and Database Technologies:** MongoDB, SQL, RESTful Services, GraphQL, Apollo Client, SQL Database Design & Normalization, Maven
- **DevOps and Cloud:** Git, GitHub Actions, Docker, Kubernetes, Google Cloud Platform, DigitalOcean, Microsoft Azure, CI/CD, Agile Methodology
- **Machine Learning and AI:** TensorFlow, PyTorch, OpenCV
- **Web Design and UI/UX:** HTML5, CSS3, Figma UI Design, WordPress Theme Development
- **Other Skills:** Algorithms and Data Structures, Software Testing, Linux, Containerization, DevOps Practices