

CHARLES BOATENG

Software Engineer

Computer Science master's student with a strong focus on data analysis and machine learning, eager to apply my skills as a Software Engineer Intern. Demonstrated proficiency in Python, SQL, and enterprise software development.

WORK EXPERIENCE

Graduate Research Assistant

2023 - Present

Florida Atlantic University, Boca Raton

- Conducted research on abnormal driving detection using GPS data, resulting in a published paper at the IEEE 20th International Conference on Smart Communities.
- Conducted cutting-edge research on machine learning algorithms and their applications in real-world scenarios.
- Developed and fine-tuned machine learning models for data analysis, achieving accuracy improvements of up to 15%.
- Utilized Python, TensorFlow, and scikit-learn for model development and data analysis.

Junior Software Engineer

2021 - 2023

Digital Extensions, Accra-Ghana

- Collaborated with a cross-functional team of engineers to develop software applications.
- Designed and implemented efficient algorithms for data processing and analysis, contributing to improved system performance.
- Conducted code reviews, identified, and resolved bugs, and ensured software quality through rigorous testing.
- Contributed to technical review boards for assigned programs, interfaced with internal and external customers for requirement analysis, project schedule, and software troubleshooting, ensuring successful product launches.
- Assisted in the optimization of database queries, reducing query response times by 20%.

Software Engineer Intern

2020 - 2021

Data Insights Corps, Accra-Ghana

- Conducted data collection, cleaning, and preprocessing, ensuring the availability of high-quality data for analysis.
- Collaborated with data scientists to develop and fine-tune predictive models, enhancing data-driven decision-making processes.
- Created and maintained interactive dashboards using tools such as Tableau, providing stakeholders with real-time insights into key performance metrics..

PROJECTS

NIH

2023 - Present

Graduate Research Assistant

- Developed a real-time data analysis tool that provided insights into customer behavior, resulting in a 20% increase in user engagement.

Automated Testing Framework Development

2020 - 2021

Software Engineer

- Designed and implemented an automated testing framework, reducing testing time by 30%.

CONTACT + PORTFOLIO

Boca Raton, FL
(Open to Remote & Relocation)

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github.com/fiifijay

EDUCATION

Florida Atlantic University

Master of Science (M.S.)

Computer Science

May 2023 - Aug 2024

Kwame Nkrumah University of Science and Technology

Bachelor of Science (B.S.)

Computer Science

Sep 2016 - Aug 2020

SKILLS

Programming Skills:

- Python
- JavaScript
- Java
- C
- C++

Web Development:

- HTML
- CSS
- Bootstrap

Databases:

- PostgreSQL
- Oracle
- SQL
- QGIS

Framework and Libraries:

- React
- TensorFlow
- Scikit-learn

Research Skills:

- Data Mining
- Statistical Analysis
- Experimental Design
- Literature Review