OBENG FRANCIS

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RESEARCH INTEREST

My research interests lie in software engineering (architecture, fault tolerance, automation), edge computing, mobile computing, and Digital Education.

EDUCATION

Virginia Tech. University Blacksburg, VA, USA
Ph.D. Computer Science January 2023
Advisor: Dr. Eli Tilevich

University of Education Winneba, Ghana
B.S Info. Technology Edu. Aug 2015 – July 2019

Enchi College of Education Enchi, Ghana
Diploma in Basic Education June 2009 – July 2012

SKILLS SET

Programming Languages: C++, Java, HTML, CSS, SQL, PHP, and Python.
Research Tools: SPSS, LaTeX (Overleaf), JMP, and Tableau.
IDEs: VS Code, Sublime Text Editor, IntelliJ IDEA, Jupyter and PyCharm.
Version Control (Collab. Tools): Git, GitHub, and GitLab.

PROFESSIONAL EXPERIENCE

Virginia Tech. University Blacksburg, VA, USA
Graduate Teaching Assistant Present, 2023.

Courses: Mobile Application Development, Web Application Development, Professionalism in Computing, and Software Engineering (Graduate and Undergraduate level courses).
- Holding office hours to assist students in overcoming their challenges in the course project.
- Reviewing students' applications (software) development process to ensure it aligns with project requirements (App Reviews).
- Grading student's assignments and projects for the assigned course.
- Reporting on students' graded assignments and projects.

Obuasi Senior High Technical School Obuasi, Ash – Ghana
Information Technology Instructor Oct. 2019 – Dec 2022
- Instructing high School students in C++, QBasic programming, HTML, CSS, Access, and SQL Database.

- Evaluating learner's academic performance through exercises, assignments, and projects.

West Africa Examination Council   Obuasi, Ash - Ghana

Assistant Examiner   Nov 2020 – Dec 2022
- Grading students' examination scripts in information and communications technology.
- Recording students' scores for onward processing by the examination council.

Ghana Statistical Service   Asokwa, Ash – Ghana

District IT Officer   June 2021– Nov 2021
- Training supervisors and enumerators on the use of census technological tools such as tablets, laptops, and Computer-Assisted Personal Interviewing (CAPI) software.
- Supervising the transfer/syncing of census data from tablets and laptops to the national data warehouse/data center.

Interviewer   April 2018–June 2018
- Interviewing respondents in the assigned enumeration area on the census of agriculture.
- Transfer of census of agriculture data collected to the national data center.

Interviewer   June 2017 – Oct 2017
- Interviewing respondents in the assigned enumeration area on the maternal mortality survey by using Computer-Assisted Personal Interviewing (CAPI).
- Transfer/syncing of maternal mortality survey data collected to the national data center.

Ghana Education Service   Ashanti region-Ghana

Professional Info. Comm. Tech. Instructor/Teacher   Sept 2012 – Aug 2015
- Instructing Junior High/Middle school (age: 11, 12, 13, 14, and 15+) students on computer hardware, computer software, internet usage, word application, and spreadsheet data analysis.
- Evaluating learners computing knowledge and skills through assignments, exercises, project work, and examinations.

CLASS AND PERSONAL PROJECTS
- BookStore E-commence Project: an e-commerce website project for the Web Application Development course.
- Website and Guest House Reservation
- School Website and Exact Application System Prototype.
- Online Bus Ticketing System; an undergraduate capstone project.

RESEARCH LICENSES
- Financial Conflict of Interest Training Requirement for Sponsored Research.
- Information Privacy and Security (IPS).
- Basic Responsible Conduct of Research.

ONLINE COURSES ON COURSERA

University of Michigan	Ann Arbor, Michigan
Programming for everybody (getting started with Python)	June 2021 – July 2021
Web Application Technologies and Django	June 2023
University of Illinois	Urbana-Champaign
Data Visualization	June 2021 – July 2021
DeepLearning.AI	USA
Artificial Intelligence for Everyone	May 2023
University of Pennsylvania	USA, Pennsylvania
Introduction to Python Programming	July 2023
University of London: Introduction to Network Security	UK, England
Microsoft: Intro. Computers and Operating Systems and Security	Aug 2023.