OBENG FRANCIS

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RESEARCH INTEREST

Software engineering (architecture, fault tolerance, automation), edge computing, mobile computing, and Digital Education.

CURRENT RESEARCH PROJECT:

I have developed an automated program analysis tool (WEBSERVFH) for automatically analyzing a large dataset of open-source web service applications to identify exception-handling strategies implemented in these OSS codebases for further statistical analysis.

EDUCATION

Virginia Tech. University   Blacksburg, VA, USA
Ph.D. Computer Science (CGPA, 3.667)   January 2023
Advisor: Dr. Eli Tilevich

University of Education   Winneba, Ghana
B.S Info. Technology Edu. (CGPA, 3.67)   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.
Design: Figma.

PROFESSIONAL EXPERIENCE

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

Courses: (Graduate and Undergraduate level courses).
- Mobile Application Development
- Web Application Development
- Professionalism in Computing(2x)
- Software Engineering
- Introduction to Software Design

- Leading Programming Lab sessions twice per week for the entire semester.
- 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.