EDIDIONG-ABASI ITA ANWANANE

UI/UX Design, Software Engineering, Network Engineering, Data Analysis, Machine Learning Research

Address: C/o Edidiong-Abasi Anwanane, WAIFEM, Lagos, Nigeria

Phone: +2347035532558

E-mail: didianwanane@gmail.com

Twitter https://twitter.com/EdidiongAA

LinkedIn www.linkedin.com/in/edidiong-abasi-anwanane

WWW https://zety.com/profile/0255-220520225711/464

https://edidionga.github.io

Technical Skills

Product development; Project management; IT Infrastructure planning & system upgrades; technical writing; Buffer and Heap overflow attack implementation using assembly language and shell code; Malware analysis using Wireshark, Cuckoo SandBox and iptables; Cross site scripting (XSS) with JSON and PHP; web security; software engineering & testing; social and reverse engineering; penetration testing using GoPhish; firewall management; public and private key cryptography; network troubleshooting; agile application development; web application development with HTML, PHP; code versioning with GitHub; Database application development with Angular and Node.JS (frontend), Java (backend) and SQL (MySQL) using Spring MVC with JPA for database connections; virtualization (for server and standalone systems); Managing and Administering Windows Server 2012 and 2016; RDBMS operations (EER, EER to Relational Mapping, and abstract code); prototyping and wireframe/mockup creation; heuristic evaluation of user interface design; UI need finding planning, UI evaluation planning and execution methods; executing GOMS models for UI design; Design of an LMS using Moodle; Data analysis with python libraries (Pandas, Numpy, Matplotlib, Scikit-learn); implementing machine learning algorithms (BAG, Decision Tree, Random Tree and Insane learners; SVM; Neural Networks; Regression trees; Naive Bayes; kNN); Control and Relief valve sizing with InstruCalc; Instrument Index and Tag creation with Integraph SmartPlant Instrumentation; implementing routing and switching protocols; implementing VLANs and port security in Cisco and Huawei devices; rendering technical drawings in Detailed Design for Instrumentation systems; Process Control Development; P&ID diagram construction; Fire and Gas systems design; creation of FEED and Detailed Design specification documents and datasheets.

Projects

- Data and Statistical Analysis (using Python) on deaths that occur in custody or during the process of arrest in California (February 2023 – https://github.com/EdidiongA/Data_Statistical_Analysis).
- Data and inferential statistical analysis using Python on a natural language classifier built to identify toxicity in comments from Wikipedia Talk Pages (March 2023 – https://github.com/EdidiongA/Data_Analysis_Toxicity).
- Applied AI and Machine Learning algorithms to Google's deep learning Word2Vec word embeddings and the facial recognition system using the UTK dataset (https://github.com/EdidiongA/AI_ML_Word2Vec_FacialRecognition).
- Used Machine Learning regression classifier models and the AI Fairness 360 toolkit to calculate fairness and bias metrics in the Taiwan Credit allocations dataset (https://github.com/EdidiongA/AI_Fairness_and_Bias).
- Used the Wikipedia transformer model (an NLP model) to retrieve Facebook ad information from my Facebook profile in certain categories (https://github.com/EdidiongA/Facebook_Ad_Info_Retrieval)
- Built a GameSwap Database application for peer to peer game sharing using MySQL, Angular and Node.JS, Spring Boot using Java with Maven Dependencies and MySQL (Jan to April 2022 - https://github.com/EdidiongA/GameSwap).
- Launched a penetration testing campaign using GoPhish (an email phishing platform), set up on a remote Linux VPS complete with domain hosting, a digital certificate for the domain and email authentication set up (September 2022)
- Built a Job Comparison Android application called "JobCompare6300" which compare different jobs or job offers based on the weights of aspects of each job; developed user interface mockups and wireframes for the app (August 2020 - https://github.com/EdidiongA/JobCompare).
- Developed wireframes/prototypes for the Georgia Institute of Technology Student Registration pages (August 2019).
- Designed a School Zone Alert Mobile App - to alert drivers when approaching school zones (August 2019).

- Content Developer, Denvycom.com – Curated 80% of content for Trivia Monkey Phone App, under the DevCon Alpha Mobile Phone App Contest, organized by Verve Nigeria, Microsoft, Nokia and Mobile Monday (Feb – May 2014).

Education

Master of Science: Computer Science (**Aug 2018 – Dec 2024, currently on academic leave**) - *Georgia Institute of Technology - Atlanta, GA 30332-0315*

Bachelor of Science: Computer Science (**Sept 2004 - June 2008**) - *Babcock University, Ilishan-Remo, Ogun State, Nigeria*

Publications

Victor Dibia, Edidiong Abasi Anwanane (December 2019) - "Amadioha: An Open Domain Question Answering Tool for Encouraging Citizen Participation in Developing Countries" NeurIPS Conference, Vancouver Canada, 2nd Black in AI Workshop (https://media.neurips.cc/Conferences/NeurIPS2019/DiversityBrochure2019.pdf)

Work History

Assistant Systems Administrator (**August 2011 – Current)**

West African Institute for Financial and Economic Management (WAIFEM), Lagos, Nigeria

- Monitored infrastructure to resolve technical problems quickly and prepared different written communications, reports and documents thereby improving incidence response time by 20%; led server infrastructure development, quality assurance, staging and production systems, improving communication flow among 5 departments.
- Enhanced availability of infrastructure through enterprise-wide planning, thorough testing, efficient implementation and comprehensive support thereby increasing efficiency by at least 30%.
- Diagnosed and executed resolution for network and server issues with increased response time of 25%.
- Analyzed 30+ complex project server issues and worked on large enterprise and business-critical applications.
- Maintained a 70% flexible schedule and responded to after-hours and weekend emergencies.
- Planned & performed software upgrades to hardware & software and thereby reduced system downtimes by 20%.
- Proposed applicable IT standards & regulatory guidelines thereby increasing infrastructure efficiency by 20%.
- Steered and fine-tuned IT policies and guidelines in line with industry best practices.
- Introduced performance improvement strategies and plans thereby improving service delivery by 15%.
- Supervised IT projects, evaluating them against SOPs, thus improving project quality by 30%.
- Collaborations with UNITAR for pilot phase of e-Learning LMS to deliver excellent training content.
- Managed institute's IT infrastructure - routers, switches, firewalls, printers, workstations, servers, LAN.
- Speedily Resolved problems and improved operations, increasing quality of service by 25%.
- Engaged with clients to understand needs and provide excellent service, improving client satisfaction by 15%.

Accomplishments

- Implemented and deployed WAIFEM's E-Learning System catering to capacity building needs in Financial Services of the West African sub region and beyond thereby facilitating distance learning in West Africa.
- Managed the installation and configuration of Microsoft Exchange Server 2013 and full active directory resynchronization resulting in a seamless intranet messaging service.
- Management of software & application systems support for 10 servers and 100+ client computers for 12+ years.
- Championed the implementation of a campus WAN comprising 20+ Cambium devices with a combined meshed distance of 3+km; 2.4GHz & 5GHx dual bands; and 4900 peer connections capacity to provide Wi-Fi service.

Instrumentation Engineer (**July 2010 – August 2011**)

Shell Petroleum and Development Company Ltd, Port Harcourt, Nigeria

- Revised instrumentation guidelines to address exceptions and provide clarification in 65% of project scenarios.

- Calculated component and instrumentation specifications for electrical and pneumatic control systems, utilizing both off-the-shelf components and custom-built solutions in over 80% of project assignments.
- Collaborated in design specification review meetings, coordinating with inter-departmental teams to align ongoing efforts and overall business goals.
- Applied principles of electrical theory to improve product development & efficiency in 75% of assigned projects.
- Conducted 3 projects and performance presentations to clients and company executives.
- Determined project scope, cost estimates and set timelines for project delivery in 90% of team projects.
- Rendered technical drawings and electrical systems specifications for 4 major projects.
- Undertook field inspection visits to 4 oil and gas facilities for project work scope and HSE verification.
- Engaged in workshops on SIF and HAZOP Studies for over 10 oil and Gas facilities.
- Generated FEED and Detailed Design specification documents for 8 projects.

Accomplishments
- Influenced the As-Built Campaign Project -Utorogu, Umuechem Flowstations (September – October 2010)
- Coordinated the Cawthorne Channels 1, 2, 3 Export Metering Upgrade Project and Imo River 1 Export Metering Upgrade Project (FEED and Detailed Design) – (October 2010 – July 2011)
- Facilitated the Obigbo Fire and Gas System Installation Project (Detailed Design) – (March – May 2011)
- Collaborated on the Santa Barbara MPF Fire and Gas System Installation Project – (March – May 2011)
- Advanced the Bonny Gas Terminal Temporary Flare Bypass Project (March 2011)
- Revised the BNAG Minor Reservoir Development Project (June 2011)

Network and Help Desk Support Assistant (**September 2008 – July 2009**)

The Presidency, Energy Commission of Nigeria, Abuja, Nigeria

- Identified issues and provided solutions to 50% of the problems in Energy Information Systems (EIS).
- Incorporated Microsoft Word and other software tools to create documents and other communications.
- Conducted research and presented results concerning IT tools relevant for energy reporting and maintenance.
- Developed team communications and information for 50% of the meetings.
- Tutored key EIS staff on export and import of Microsoft Outlook 2003 migration tools.
- Facilitated in international energy workshops; maintained & troubleshot computer hardware & enterprise LAN.

Affiliations

- Member, Institute of Electrical and Electronics Engineers (Member No. 80409119 - 2005 till Date)
- Member, International Society of Automation (Registration Number - 33187539 - Jan 2011)

Languages

French (Very Good); English (Excellent)

Certifications

Social/Behavioral Research Investigators and Key Personnel (CITI Program, A Division of BRANY), Credential ID – 32863079 (**Sept 2019**); CCNA – Cisco Certified Network Associate (**Oct 2015**); CCNP – Cisco Certified Network Professional (**Oct 2015**); MCSA – Microsoft Certified Solutions Associate (Windows Server 2012) (**January 2015**); Microsoft Certified Technology Specialist (Business Desktop Deployment) (**June 2009**); Microsoft Certified Professional (**June 2008**); CompTIA Network+ Professional (**December 2007**)