

FOGO TUNDE-ONADELE

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EDUCATION

North Carolina State University, Raleigh, NC.

PhD in Computer Science

anticipated May 2021

GPA: 3.80/4.00

North Carolina State University, Raleigh, NC.

Bachelor of Science in Computer Engineering

May 2017

GPA: 4.00/4.00

Bachelor of Science in Electrical Engineering

COURSEWORK

Automated Learning and Data Analysis, Artificial Intelligence, Advanced Distributed Systems, Design and Analysis Of Algorithms, Operating Systems Principles, Computer Networking, Embedded System Design, Computer Architecture.

SKILLS AND CERTIFICATIONS

Languages: Java, C, Python, MATLAB
Tools: Docker, Apache JMeter, GIT, SVN, Eclipse
Certifications: Cisco Certified Entry Networking Technician (CCENT)

PROJECT EXPERIENCE

Operating Systems (C, Xinu OS)

Scheduling

- Modeled process schedulers with Linux-like and random-based policies

Synchronization

- Achieved a lock system that handles the readers-writers concurrency problem and priority inversion

Virtual memory

- Implemented the page and storage infrastructures required to support Demand Paging

Key Achievement: Successfully extended the internals of the Xinu OS in the above areas to understand efficient management of computer system resources.

Automated Learning/Data Analysis (MATLAB, Python)

Rainfall Prediction

- Applied neural network and regression machine learning models on a 50 year precipitation dataset
- Evaluated models by comparing the mean squared error results of cross validation

Key Achievement: Dealt with applying newly studied analysis techniques on a large amount of data.

ERR Analytics and Modeling (JavaScript)

An application that visualizes correlations among the exception data of enterprise applications.

- Learned and applied the API of a JavaScript visual tool (D3) to present a graph on a website
- Applied Ajax techniques to exchange website data with a server
- Deployed and managed application services on the Bluemix cloud platform

Key Achievement: Consolidated website components to launch dynamic web pages.

WORK EXPERIENCE

Research Assistant, Dept. of Computer Science, NCSU, Raleigh, NC

Jan 2018 - Present

A security vulnerability detection study, supervised by Dr. Xiaohui (Helen) Gu

- Inspect exposed application environments within Docker containers on Ubuntu
- Examine container resources and system calls for anomaly detection
- Introduce tests to study detection under practical application load conditions

Discrete Maths Teaching Assistant, Dept. of Computer Science, NCSU, Raleigh, NC

Aug 2017 - Dec 2017

- Constructed rubrics for efficient grading of test questions for over 170 students
- Tutored students in weekly office hours and exam review sessions

Physics Tutor, University Tutorial Center, NCSU, Raleigh, NC

Sept 2014 - May 2016

- Structured sessions for two students each semester for a total of 4 hours per week
- Promoted effective study skills and behaviors