

Victor Adegbite
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OBJECTIVE: to develop programs in C++ and Python to solve real-world problems in network analysis, software development, and cybersecurity

EDUCATION

New York University Tandon School of Engineering 2016 - 2020

Computer and Electrical Engineering (B.Sci.) with Math Minor

Courses: Linear Algebra, Multivariate Calculus, Discrete Math, Real and Complex Analysis, Probability, Gauge Theory, Differential Geometry, Algebraic Topology, Geometric Topology, General Relativity, Classical/Quantum Electrodynamics, Semiconductor Physics, Data Structures, Algorithm Design, Computer Architecture/Organization, Xilinx, Autodesk Inventor Certified, Machine Learning, Circuit Design, Electronics, Signal Processing, Transmission Lines, Feedback Systems, C/C++/C#, MATLAB, Python, AutoDesk Inventor, Java, HTML, CSS, JavaScript, Ba/C/Z-sh Scripting, Powershell

PROJECTS

Research – Geometric Deep Learning

- Developing a pooling method which exploits the nuances in the geometries between the trained Neural manifold and the target Neural manifold, entailing optimization of respective weights based on the differences in configuration. Additionally, a more mathematically rigorous framework in Differential Geometry was formulated in an attempt to remedy the discrepancies between statistical learning and geometry. Programming is done primarily using Jupyter notebook's libraries, including but not limited to sci-kit learn, numpy, pandas, and keras. However, C++ libraries Dlib and FANN were also used whenever computational speed was of the interest

Design Project – Automated Delivery Bot

- Created an AI which allowed a simple delivery bot – built mainly with Arduino and programmed in C++ – to navigate to a specified address using built in sensors. Neural Networks, specifically CNN's, were used to optimize image recognition to better differentiate between subjects within frame

SUMMARY OF PROFESSIONAL WORK QUALIFICATIONS

- primary platforms – Windows, Linux, MacOS, Android (NDK & SDK)
- software capabilities – Machine Learning, network traffic analysis, cybersecurity, embedded systems
- can work in Windows/Unix shells - powershell, bash, zsh
- programming in C++, Python, and C# for development and penetration testing
- understand computer architecture of CPU for MIPS
- both program algorithm and circuit design
- can easily learn new material in short amount of time
- good work ethic and consistent
- easy to work and communicate with

PROFESSIONAL EXPERIENCE

Lockheed Martin located in Liverpool, NY

Software Engineer from 03/06/2023 - Present; 40hrs/w

- update Scalable Signal Processor (SSP) software on Sentinel A4
- simulate real-life scenarios for diagnostic purposes
- improve and maintain linkage between SSP to hardware manager

Freelance Computer Technician located in Bronx, NY

Computer Technician from 01/01/2022 - 03/06/2023; 30hrs/w

- help with hardware issues involving RAM, CPU/GPU, and battery supply
- retrieve accounts with lost passwords
- create a variety of programs with users with data-scraping functionality depending on the application in C++ and C#

Morgan Stanley located in New York, NY

Software Developer from 09/28/2020 - 01/03/2022; 40hrs/w

- assist in developing the infrastructure for MS trading platform
- analyze network packet transfer received by client and sent to exchange using Jupyter Notebook's sci-kit learn library
- completed tasks on Linux OS primarily in Perl, Python, and C++

Mini Circuits located in Brooklyn, NY

Project-Based Electrical Test Engineer from 01/05/2019 - 04/05/2019; 25hrs/w

- test electrical components in accordance to design specs
- familiarity with network analyzers, spectrum analyzers, and noise figure analyzers
- analyze various electrical components using programs powered in C++

Con-Edison located in Brooklyn, NY

Software Development and Management (Intern) from 07/28/2018 - 08/31/2018; 40hrs/w

- constructed search algorithms, using Python and C++, to find faulty sites that pose as hazardous obstructions to company workers and civilians
- present data on various statistics including resource usage using both Microsoft Excel and PowerPoint