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Harold Davis

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EDUCATION

Virginia State University, Expected Graduation May 2028
Bachelor of Science in Computer Science 3.9 GPA

Petersburg, VA

TECHNICAL SKILLS, TOOL, & SOFTWARE

• Python • C++ • Visual Studio Code • Microsoft Office 365 • IBM AI • IBM Cybersecurity • MySQL • HTML • CSS • JavaScript • Java • Visual Studios • Virtual Machine Ubuntu • IC2 Cybersecurity • CISCO Introduction to cybersecurity • SSH • PHP • Raspberry Pi • Public Speaking • SQL

RELEVANT COURSEWORK

• Programming I (Python) • Introduction to Computer Science • Programming 2 (Java)

WORK EXPERIENCE

August 2023 - Present

United States Army

Augusta, GA

Engineer (SECURITY CLEARANCE: SECRET)

- Repair advanced computer systems, night vision goggles, GPS systems, etc.
- Manage electromechanical telecommunications equipment, field artillery digital devices, and fiberoptic systems functionality
- Test equipment to determine operational condition and troubleshoot to determine faults
 - Replace equipment parts such as resistors, switches and circuit boards
- Use test, measurement and diagnostic equipment; test program sets; and interactive electronic technical manuals to troubleshoot and repair equipment

PROJECT EXPERIENCE

September 2024

Game Arcade

- Develop a Python application enabling users to choose from games like Hangman, Guess the Number, and Word Scrabble, allowing endless play.
- It consists of games like hangman, guess the number, and Delaware quiz
- Create a user-friendly interface with game functions, incorporating input validation and a loop for continuous play until the user decides to exit.
- Successfully launched a game arcade that provides users with hours of entertainment and positive feedback for its functionality and ease of use.

November 2024-Present

IOT Team Lead Smart Parking Management System

- Develop an IOT platform / MySQL Database to import and organize data from the computer vision side of the project
- Created and deployed a cloud server on a Raspberry Pi to seamlessly ingest real-time data.
- Research on how data moves and transfers throughout different devices.

RESEARCH EXPERIENCE

November 2024-Present

Network Feature Extraction from Traffic Captures to Support Automation of High Fidelity Simulation Environment

- Research assistant for Professor and Department of Defense
- Study protocols (TCP, UDP, ICMP), packet structure, and traffic flow characteristics
- Ensure the data is clean and structured for further analysis, and consider aggregating data over specific time intervals to make it suitable for high-fidelity simulations
- Familiarize with tools like Wireshark, tcpdump, Vmware, or Tshark to capture and analyze network traffic
- Look into simulation environments like ns-3, Mininet, or OMNeT++ and learn about their traffic generation capabilities, as well as how to integrate extracted traffic features into these tools.

ACTIVITIES & HONORS

August 2024 - Present

National Society of Black Engineers (Senator of NSBE) • CrownHIM • Coding Club • Rotary Club • ROTC (National Guard)
• JTech (Startup-Technical Solution Organization) • VSU Hackathon 2nd Place • VSU STEP Program • TMCf Citi Program
• Cyber Security Club • Virginia State University Computer Science STEM Scholarship

