

Branavan Kalapathy

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RELEVANT WORK

Blue Cross Blue Shield of South Carolina;

Columbia, SC

Feb 2023-July 2023

Role.: IT Business Trainee/Network operations Team/Entry Level Training Program-Infrastructure and Security track

- Unix-automation shell scripting for validation and finding compliances such as TRICARE, MEDICARE, and commercial healthcare claims.
- Powershell-automation scripting
- Applied scripts for vulnerability scanning with tools such as Tripwire and Nessus on non-host and host devices, including the mainframe
- Excel spreadsheet data handling and pipelining on UNIX and Windows Host Devices as well as IBM-Z mainframe
- Comp-TIA Core 1, 2, and Networking training

CERTIFICATES

Great Learning: MIT:DSML; Virtual Program
Society

Sept 2023 - Jan 2024

Certificate via MIT Institute Data, System &
MIT Schwarzman College of Computing

EDUCATION

University of South Carolina; Columbia, SC
College of Engineering/Computing

Aug 2018 - Dec 2022

Bachelor's of Science & Engineering

Midlands Technical College; Columbia, SC
Pre-Engineering transfer student

Aug 2014 - May 2018

Associates in General Technology

RELEVANT PROJECTS

- E-book implementation in C++
- Operating System and CPU scheduling algorithms written in Java
- SPI and UART embedded system coding in C
- Microprocessor Digital logic design using System Verilog and RISC-V coding
- Testing/building passive and active electronic and electromechanical circuits using circuit theory
- Capstone senior design project: Utility WebApp to curb media addiction; Angular, Typescript and Firebase
- Program and build an autonomous robotic Duckie-bot car, controlled by Raspberry Pi, and store python scripts to make the car autonomous using docker container images. Goals of the robot were to traverse in a square and circle using a PID controller
- Machine learning/AI program in Python, applying and training neural networks on datasets to predict validation percentages. Implemented these algorithms using PyTorch and PyCharm IDE in the Conda environment.
- Food Hub data analysis using pandas and numpy python libraries
- E-commerce Classification and Hypothesis testing using sci-kit learn and Matplotlib
- Recommendation systems for Amazon products using sci-kit learn Surprise Python library

SKILLS

Computer Programming: Java, C, C++, Python, HTML/CSS, Matlab, R, Typescript, Prolog, Haskell

Software: Logisim, MATLAB, ROS, Docker, MARS, Labview, Microsoft Office, Intel Quartus, Anaconda & Jupyter., PyCharm, VMWare

Operating Systems: MacOS, Linux Distributions, Windows

