Vinodh B

Computer Science Graduate | C/C++ Programmer | Linux Entusiast

Mobile: +1 (913) 326-4029   **Email:** vinodhb2720@gmail.com   `www.linkedin.com/in/vinodh27`

Experience

Comcast Corporation

***Development Engineer 1 – Platform Security Team** – (Dec 2021 - July 2023)*

- Working on Yocto Project for creating custom Linux distributions for RDK devices.
- Implemented SBOM(Software Bill of Materials) functionality into the build system which helps maintaining supply chain security by tracking all the software components that make the final software product.
- Enabled ASLR for several RDKB devices which produces position indipendent code whic reduces memory related security vulnerabilities.
- Worked on creating XPKI certificates used for TLS communications of internal components.
- Worked on enabling Tab Completion feature for a custom Walledgarden shell to securely SSH into CPE devices.

Education

- **University of Central Missouri | (2023 - Present)**
  Masters - Computer Science
- **Bharath Institute of Higher Education and Research | (2017 - 2021)**
  B.Tech - Computer Science Engineering - 8.4(CGPA)
- **Sri Chaitanya Junior College | (2016 - 2017)**
  Intermediate(MPC) - 97.7%

Projects

Bencode Parser

- Bencode Parser allows converting Bencoded data(Used in torrent files) into human readable JSON format.
- Developed in C++ and used **Jsoncpp** library for handling with JSON objects.
- Created an API which can be used in other projects while working with Bencoded data.

`https://github.com/v1n0dh/Bencode-Parser`

Authentication App

- Implemented Authentication and Authorization mechanism using **Spring Boot** and **Spring Security**.
- Added **JWT** support for creating tokens and maintaining sessions until token expires.
- This application can run seperately as a service and used by other applications as a Login service by leveraging the Rest Endpoints provided.

`https://github.com/v1n0dh/Authentication-App`

Wifi-Scan

- A wrapper script for wpa_supplicant which prompts for available networks and initiiate the connection to the network selected.
- It is a shell script wirtten in bash, comes handy in GUI less situations in linux.

`https://github.com/v1n0dh/dotfiles/blob/master/.scripts/wifi-scan`

Technical Skills

- C/C++, Java, Python, Bash(Scripting), Rust
- Linux and all Unix like Systems
- Data Structures and Algorithms
- Spring and Spring Boot, MySQL
- Yocto Project, Git, Vim, Networking, Linux Command Line, Latex