

David Cannan

Cyber Security & Cloud Architect Enthusiast

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I am currently looking to find a career in IT. I have very broad spectrum of capabilities including: setting up and managing networks and services (local & cloud), penetration testing (physical & web testing), coding languages (Python, bash, html/css/js, json/yaml/docker, and writing APIs).

Authorized to work in the US for any employer

Work Experience

Woodworker/ Small Business Owner

CDA Woodworks - Douglasville, GA

May 2018 to Present

Heirloom quality, hardwood joinery, self employment.

Build custom cabinets, shelving, flooring, tables, desks, panel doors, drawers, and such.

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Set up, operate & tune a variety of woodworking tools and machinery: bandsaw, tablesaw, lathe, thickness planers and sanders, circular saw and hand tools (chisels, saws, hand planes).

Photographer/Small Business Owner

David Cannan Photography - Doug

August 2017 to Present

Accustom to providing services such as, family sessions, individual portraiture, and product photography. Both environmental and studio style portraiture.

Experienced with: Frontend and backend web services (built a system for my clients) & Adobe creative cloud.

Head of Lamination/Finisher

T&T Caseworks - Douglasville, GA

May 2021 to November 2022

- I am for all intensive purposes the only person in my department.
- The laminator position is best described as: laminating (in shop) the design/textured finishes onto cabinets, countertop, custom displays and features; that have been chosen by people in the design and architecture industry. Almost always jobs are built-to-order and no two jobs are the same.
- Serving clients such as: Wellstar Kennestone, Grady Hospital, Kenestone Hospital, Children' Healthcare of Atlanta, Multiple Sclerosis Center of Atlanta, to name a few.
- Being able to prepare and manage many small but intricate tasks which all come together as an end product.
- I had to create a method that works for me, in helping sort my day and complete jobs.
- I was sought out and offered a job, having never stepped in a cabinet-shop before; where I quickly established myself as a highly effective and sufficient employee, by challenging myself and aiming for quality.

Associations

David Cannan Photography LLC
CDA Woodworks

Education

High school diploma

Hiram High School

Skills

- AWS
- Penetration testing
- Cloud development
- Linux
- SQL
- Cloud Computing
- Virtualization
- Azure
- Adobe Creative Suite
- VMWare
- Web development
- Microsoft Windows Server
- DNS
- Network security
- APIs
- JavaScript
- XML
- Scripting
- Shell Scripting
- MySQL
- Git
- Python
- Docker
- HTML5
- Active Directory
- Operating Systems
- REST
- Node.js

Links

<https://twitter.com/cdasmktcda>

Publications

Hardware Hacking Blog

<https://wp.cdaworkstation.com>

Additional Information

Creating Practical Experience for myself build target and replicate environments to hack. •

Implementing attacks using ESP32 microcontrollers at home, to build target and replicate environments to hack.

- Example Setting: 1 host device, and 2 or more clients (host programmed to have a WPA2/hidden network & clients communicate with each other).
- Example Attack: Performing a beacon attack to retrieve the hosts hidden SSID. Using the gathered information to spoof/intercept handshakes from the client devices and crack the hash to gain the credentials needed to access the host from the threat device.
- Result: Access has been gained to the network; from here ARP or DNS spoofing can be implemented to direct traffic and phishing can begin.
- Building Labs in “the cloud”

Using Linode Cloud Computing (and other SaaS) for building and securing my domains and servers behind services like Cloudflare.

- Allows me to practice penetration testing from the comfort of any browser that I have access too.
- Spinning up Linux servers to learn backend and teach myself how to create and manage VMs.
- Using Docker Container’s to host entire networks all on one server and practicing my attacks.
- Portainer, Kasm, Kali Linux, Parrot OS, Metasploitable, WordPress, Tor, etc...
- Reverse Engineering IoT hardware to learn about UART, serial connections and data streams.
- Currently learning about onboard memory and recovering firmware from everyday devices with the goal obtaining root privileges.

• OSINT and Recon

- Google dork and scraping APIs with tools like Maltego.
- I’ve had several successful OSINT searches and found information on targets (gov salaries, police records, and property searches) for friends and family members.
- Ran home network through vulnerability scans using tools like NMAP and Metasploit and patched the problems that I found.
- Familiar with Cross-Site Scripting (XSS) and web application attacking.
- Successfully “hooked” browsers by copying trusted HTML pages and injecting BeEf’s JavaScript webhook.
- Stress tested and exploited my own domains and servers through BurpSuite.

• WI-FI Data Collection

- Wi-Fi is so open air, it's important to be precise when throwing out attacks, the Wi-Fi Pineapple is great for that, makes EvilTwinPortals super easy and AP enumeration is incredibly easy with its GUI.
- Built a Pwnagotchi from a Raspberry Pi, great for generating Wi-Fi hashes.
- Built a WarDriving rig from an ESP8266 and a GPS module designed for a drone.
- Allows me to plot Wi-Fi signals with its GPS coordinates. Great for collecting the data needed in order to overlay Wi-Fi targets on a map (using Python).

- Home lab (Home network)
- Flashed my home router with open source firmware (OpenWRT)
- Setup multiple VLANs which are categorized by device.
- Followed the rule of least privilege.
- Hardened default passwords and hostnames.
- Adjusted wireless signal power to prevent outside connections.
- Synology NAS server running docker to host things like Minecraft servers, and hosting other in house hosting.
- Assembled Windows Active Directory and Domain Controller.
- Setup an environment in a as VMs, using Windows Server 2019 as domain controller and Windows 11 clients.