

Nickelsville VA

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<https://github.com/133794m3r>

## EDUCATION

### Mountain Empire Community

May 2021

Associates of Applied Sciences: Computer Software Specialist; Associates of Applied Sciences Nursing; Cybersecurity Work Certificate.

### Academic Honors/ Achievements:

Presidents List: SP19; Merit List: SU19, FA19; Honor's List SP20

## CERTIFICATIONS

Security+: 34250C2EZC41QKW9

Sep 2019

## RELATED EXPERIENCE

### Mountain Empire Community College| Big Stone Gap, VA

Sep 2019 - May 31<sup>st</sup> 2020

#### Cybersecurity Lab Specialist

- Created a NetLab course Module utilizing VMWare ESX server software.
- Helped teach some concepts in ITN-171 Unix, ITN-261, ITP-270
- Created the practical component of the final for ITN-262 (Computer Forensics/C|HFI course)
- Wrote a paper on the RSA Cryptosystem including practical attacks for ITN-260/261's practical components.
- Fox and the Hound custom Linux Challenge Series.
  - Teaches BASH scripting, Grep, Sed, Awk, RegEx, Scripting, CLI, Common Unix Administrative Tasks, "Hyper-piplining", Unix Pipes, Streams
  - Total of 18 challenges, targeted towards NSA KUs and VCCS Guidelines.
  - All labs are programmatically generated and are verified by a solver script.
  - Utilizes BASH, GNU Coreutils, AWK, RegEx, Sed, Grep, PASTE, Cron, C, Tar, Git, ViM, Nano, DASH
  - 3K SLOC of BASH (excluding comments/blank lines)

### Freelance Software Engineer & DBA| Nickelsville, VA

September 2008-June 2010; May 2015 –

Current

- Optimized User Experience for BBRPG (2009)
  - Converted database from MyISAM to InnoDB and optimized queries, moved from Apache to Nginx
  - Converted UI layer to utilize AJAX
- Created a constant video feed that was sent to Client's site
  - Wrote BASH scripts to fetch the JPEG stills from the webcam and combine into MJPEG

## PERSONAL PROJECTS

### Django AutoCTF

- Python(Django, Sympy), CSS3(Bootstrap), JavaScript(jQuery,Bootstrap), PostgreSQL, Nginx
- Site is mobile responsive, users are rate-limited and flags are generated programmatically.

- Challenge types are Programming, RSA(Hastad Broadcast, Common Mod, Fermat), Hill Cipher, Affine Cipher.
- See it live at <https://crimsonstrife.com> | Github Repo: [https://github.com/133794m3r/django\\_autocf](https://github.com/133794m3r/django_autocf)

## OpenCTF

- Consists of a series of programmatically generated CTF Flags
- Categories: Python, BASH, C, Pwn, Reverse Engineering, Forensic Analysis, Programming, Crypto, Steganography
- All challenge generators are wrote in either BASH or Python.
- Currently at ~3.7K SLOC
- Currently being utilized by MECC's CTFd system with the flags being static

## LEADERSHIP

- Mountain Empire CTF Club Team Leader.
- Same Home Different Hacks – Team Leader/Operations Head
- New Hack Who This – Team Leader/Operations Head

## AFFILIATIONS

<b>Mountain Empire CTF Club</b>	Oct 2019 - Present
<i>Founding Member/Team captain</i>	
<b>RHO-Nu Nursing Club</b>	Sep 2019 - Present
<i>Member/Class Representative</i>	
<b>Student Success Committee at MECC/Student Diplomat</b>	Sep 2019 – Present
<i>Member</i>	

## AWARDS

NCL 2020 Spring Season Individual Game: Ranked 57<sup>th</sup> out of 5,377 Players

NCL 2020 Spring Season Team Game: Our 2-person team was ranked 104<sup>th</sup> out of 931 teams overall.

## SKILLS

Programming Languages: Python(Django, Flask, SymPy), CSS3(bootstrap), HTML, JavaScript(Bootstrap/jQuery), PHP, SQL(MySQL, PostgreSQL), Shell Scripting(BASH, DASH, SH, ShellCheck), C, C++.

I have skills in Programming, Project Design, Project Management, Leadership, Linux Administration, Git, Hashcat, Ethical Hacking, WireShark, VIM, and Technical Communication

## References

Additional References available upon request.