Alexander Ahmann

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github.com/Alekseyyy

EDUCATION

Southern New Hampshire University   Manchester, NH
Bachelors of Science in Computer Science   2020–2025

- Minor in Mathematics and concentration in Data Analysis
- Accolades: NSLS Member

The New Life School   Bronx, NY
High school diploma   2013–2015

- Accolades: Honor roll

EXPERIENCE

Independent Work   Online
                                                    Sept. 2020—Present

- Participant in several competitive programming events and hackathons
    * Ranking #10124 (out of 128101) users on *DM::OJ* code judge platform
- Participated in various infosec capture the flags, wargames, and online labs
    * *TryHackMe*: completed 156 labs, earned 21 badges and in the top 1%
    * *crackmes.one*: published two (2) reverse engineering solutions
- Written technical literature aimed at both technical and general audiences
    * Published onto edited journals such as *InfoSec Write-ups*, *JavaScript in Plain English* and others
- Participated in virtual science fairs and other STEM-oriented competitions
- Collaborated on online teams when solving various tasks and problems

LaGuardia Community College   Queens, NY
Undergraduate Research Assistant   Feb. 2019—Apr. 2019

Worked with Dr. Roman Senkov and a diverse corps of undergraduate researchers to investigate problems in nuclear physics

- Worked with computational physics models
- Automated tasks with Unix shell scripts
- Taught rudimentary Linux concepts to colleagues

ICT SKILLS

- **Programming:** Python, C++, C#, Java, JavaScript, Visual Basic, VBScript, Go, R, SQL, D, LaTeX
- **Utilities:** IDA Pro, Ghidra, Mandiant Redline, Wireshark, lxc (Linux Containers), sqlmap, Burp Suite, OWASP "ZAP" Zed Attack Proxy
- **Command-line tools**: tar, rsync, awk, dd, git
- **Frameworks:** Metasploit, scikit-learn, Jekyll
- **Operating Systems:** Debian, Ubuntu, Windows Server, Windows XP/7/8/10
- **Networking:** TCP/IP

Research papers

- **Ahmann, A.**, Nair, R. (2021). A simple gravitational simulator in Python [Working Paper]. *Researchers.One.* Link: https://researchers.one/articles/21.11.00002

Posters

- **Ahmann, A.**, Alzogaray, A., Senkov, R., & Velasquez, J. (2019). *Nuclear Level Density according to Fermi-Gas and Constant Temperature Models.* In APS April Meeting 2019 (Vol. 64). Denver, CO: American Physical Society. doi:10.17613/k3qd-bb48

Selected reports and writeups

- **Aleksey*** (2022). *TryHackMe writeup: IDE.* InfoSec Write-ups. Link: https://infosecwriteups.com/tryhackme-writeup-ide-4853122e4ec1

- **Aleksey*** (2021). *Euler in 3D: Three shots of Project Euler solutions written in the D programming language.* Math Simplified. Link: https://medium.com/math-simplified/euler-in-3d-89cc82fe6df7

- **Aleksey*** (2020). *Writeup to the Decompetition capture the flag.* InfoSec Write-ups. Link: https://infosecwriteups.com/writeup-to-the-decompetition-capture-the-flag-2020-3a3f14887525

- **Ahmann, A.** (2020). *Implicit bias and fatal police encounters.* Independent Publication. Link: https://writers.work/aleksey/portfolio/-ML0ucL6zfemspQ9yVjR

- **Ahmann, A.** (2019). *Rudimentary Physics With Python: An Application of Python Computer Algebra to Perform Calculus-based Kinematic Analysis.* OSF Preprints. doi:10.31219/osf.io/ezqxk

*Note that sometimes I write under the alias *Aleksey*

Articles for general audiences

- **Aleksey*** (2022). *A Simple JavaScript Sorting Utility: Or, an attempt at thinking like a programmer.* JavaScript in Plain English. Link: https://javascript.plainenglish.io/a-simple-javascript-sorting-utility-bc08fb54134c

- **Aleksey*** (2021). *The making of the XOR cipher: Mathematical proof that $m \equiv ((m \oplus k) \oplus k) \equiv (c \oplus k)$.* InfoSec Write-ups. Link: https://infosecwriteups.com/the-making-of-the-xor-cipher-794d2e6c964f

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Projects

- **VX Reloaded** — collection of proof-of-concept malware that myself and others wrote
  - Link: https://vxreloaded.github.io

- **OSSU coursework** — my work regarding a set of cheap, non-accredited courses equivalent to a diploma in various university majors
  - Currently "double-majoring" in computer science and bioinformatics
  - Link: https://github.com/Alekseyyy/OSSU

Selected certifications & coursework

- **Python for InfoSec**
  Coursera, Jun. 2021

- **Hands on Hacking**
  Hacker House, Dec. 2017

- **Computer Security & Systems Management**
  Coursera, Jul. 2018

- **IT Fundamentals**
  CompTIA, Sept. 2016

Outreach

- Volunteer at Holy Apostles Soup Kitchen   100+ Hours
  Cleaned trays, busted tables, packed food, and collaborated with a diverse staff

Languages

- **English:** Native/Fluent

Last updated: July 28, 2022