ARUSH BODLA

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PROFESSIONAL SUMMARY

High school senior with 3+ years of hands-on cybersecurity experience across competitions, research, and teaching. All-Virginia CyberPatriot champion with proven skills in system hardening, binary exploitation, and security automation. Seeking CCI internship to apply technical expertise and mentorship abilities to real-world industry challenges in the Northern Virginia cyber ecosystem.

TECHNICAL SKILLS

- **Cybersecurity:** System Hardening, Malware Analysis, Penetration Testing, Network Defense, Vulnerability Assessment, Incident Response, Security Automation, Reverse Engineering, Network Forensics, Firewall Configuration

- **Languages:** Python, Bash, Rust, C++, Java, C#, JavaScript/TypeScript

- **Tools & Platforms:** Ghidra, Pwntools, GDB, AWS, Git, Linux/Windows Administration, Win32 API, Nmap

- **Certifications:** AWS Certified Cloud Practitioner (CLF-C02), Microsoft Security/Compliance (SC-900)

CYBERSECURITY EXPERIENCE

Senior Research Project — Windows Malware Detection System Aug 2025 – Present
Academy of Engineering & Technology Leesburg, VA

- Building real-time malware detection system using Rust and Win32 API to monitor Windows registry for persistence indicators and unauthorized modifications

- Researching automated threat detection for enterprise deployment; identifying critical registry keys used by common malware families for persistence mechanisms

- Developing desktop application with React/Tauri UI featuring real-time alerts, threat classification, and detailed forensic logging for incident response

- Preparing bare-metal deployment environment using bootable images; configured Windows 7, Arch Linux, and ReactOS test systems

- Documenting research findings and creating deployment guides for potential industry use cases

CyberPatriot Team Co-Treasurer & CTF Competitor Aug 2022 – Present
John Champe High School Aldie, VA

- Achieved All-Virginia 1st Place (2025-26) and Top 1% nationally (Platinum tier, 3 consecutive years) through expertise in Windows/Linux hardening, network security, and forensics analysis

- Competed in 10+ Capture The Flag events across reverse engineering, network forensics, web exploitation, and cryptography categories; earned 1st place at Virginia Tech Summit CTF and GT Edge AI CTF

- Developed automated Bash security script achieving 120-point score increase in CyberPatriot through systematic vulnerability patching, service hardening, and firewall configuration

- Earned 4th Place nationally in National Cyber League (Spring & Fall 2025) competing in penetration testing, log analysis, and reverse engineering challenges

- Grew club from 3 to 13 teams and 15 to 75 members; managed $3,000+ budget; led weekly training sessions covering security fundamentals, tool usage, and competition strategies

Cybersecurity Projects & Research 2022 – Present
Independent & Academic Northern Virginia

- **Linux Hardening Automation:** Created comprehensive Bash automation script for security configurations including iptables rules, SSH hardening, service auditing, and user permission management; deployed in competition environments

- **Security Tool Development:** Building online judge platform with secure code execution sandboxing for 100+ users; implementing input validation, rate limiting, and SQL injection prevention

LEADERSHIP & TEACHING EXPERIENCE

Co-Founder & Tournament Director — Sept 2023 – Present
ACL Competitive Programming Club — *Leesburg, VA*

- Organized ACL-IT informatics tournament with 100+ attendees and $3,900 budget; coordinated logistics, judging, and technical infrastructure for day-long competition
- Delivered 40+ lectures to 50+ students on algorithms, data structures
- Building full-stack online judge platform (Next.js, Supabase) with secure code execution engine supporting 10+ programming languages

Vice President — Sept 2023 – Present
Computer Science Honor Society — *Leesburg, VA*

- Led 350-person hackathon with $10,000+ budget; coordinated 80 volunteers and documentation to secure industry sponsors including Microsoft and ManTech
- Organized technical workshops on cybersecurity, web development, and software engineering for 100+ member organization
- Managed Hour of Code events and coding bootcamps for middle school students; designed beginner-friendly curriculum

President & Founder — Aug 2022 – Present
John Champe Computer Science Club — *Aldie, VA*

- Founded school CS club and grew to 75+ members; developed comprehensive curriculum covering programming fundamentals, algorithms, and CTF basics
- Led 5+ competitive programming teams to regional and state competitions; coached ACSL team of 12 students over 3 years

Co-Founder & Lead Developer — Jan 2024 – Present
Cognicade Studios — *Remote*

- Built 3 educational games using Unity and C# focused on activism and global issues; reached 300+ plays across multiple platforms
- Taught 120 gifted elementary students across 3 NOVA schools; designed age-appropriate curriculum aligned with Virginia FUSION standards

COMPETITIVE ACHIEVEMENTS

- **CyberPatriot:** All-Virginia 1st Place (2025-26), Top 1% Nationally (Platinum tier 3x)
- **National Cyber League:** 4th Place Nationally — High School Division (2025 Spring & Fall)
- **CTF Competitions:** 1st Place VTech Summit CTF, GT Edge AI CTF; 3rd Place LMCO CyberQuest
- **IIOT Team USA:** Selected as Team USA for International Informatics Olympiad in Teams
- **USACO Gold Division:** Qualified for USA Computing Olympiad Gold tier (top 15% globally)
- **ACSL:** State Champion with highest individual score in Virginia; National Silver medal (2024)
- **National Merit Semifinalist:** Top 1% of PSAT test-takers nationwide (2025)

EDUCATION

John Champe High School — Expected June 2026
GPA: 4.0/4.0 — Academies of Loudoun: Academy of Engineering & Technology — *Aldie, VA*

- Information Technology Pathway with intensive study of computer science, software development, and technology research
- Virginia Governor's School for Math, Science, and Technology (Summer 2025) — Selected as 1 of 20 students statewide