Georgi Petrov

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Education

Rutgers University — New Brunswick, NJ
B.A. in ITI and CS - Honors Program - Junior - GPA: 3.7 — *Sept. 2024 - May 2028*

Experience

System Administrator — April 2025 - Present
Rutgers Cybersecurity Club — *New Brunswick, NJ*

- Lead setup and maintenance of Proxmox-based virtual machine cluster for cybersecurity training and research
- Increase club readiness and preparedness for CCDC and CPTC network defense competitions through practice virtual machine deployment
- Manage pfSense firewall to segment environments and enforce perimeter security; drafted Incident Response procedures and mitigation workflow for critical React2Shell (NIST CVE-2025-66478) vulnerability
- Implemented infrastructure for Scarlet CTF (Capture the Flag) competition with **over 710** competing teams

L2 Helpdesk & Field Support — October 2026 – Present
Rutgers University - Office of Information Technology — *New Brunswick, NJ*

- Deliver advanced remote support using Bomgar and conduct campus-wide field support for **2000+** ITS users
- Perform wireless and wired network surveys, OS deployment, and hardware diagnostics for campus infrastructure
- Leverage monitoring tools (Icinga), proactively detecting network outages and infrastructure bottlenecks, & collaborating with L3 systems + network teams for rapid incident remediation
- Identify, document, and triage complex network and system anomalies, serving as Tier-2 escalation point for complex hardware, network, and enterprise software incidents escalated by L1 consultants via ServiceNow

L1 Helpdesk Consultant — May 2026 – October 2026

- Assisted users with device setup and software troubleshooting, specializing in MS365, Windows AD, Google Apps, Enterprise Wifi, and web connectivity. Utilized PaperCut to manage university printing services
- Provided advanced technical support in person, resolving issues related to networking, hardware, and enterprise software. Also assist users with cybersecurity concerns, multi-factor authentication, and account recovery
- Log & triaged incidents in ServiceNow, ensuring proper documentation & timely escalation of adv. technical cases
- Translated complex technical solutions into actionable, non-technical instructions for students and faculty

Projects

ExfiltrationGroup.com | *HTML, CSS, JS, Git, Vercel* — Sept. 2025 - Dec. 2025

- Co-architected educational cybersecurity platform analyzing AI-driven social engineering & phishing threat vectors
- Researched and synthesized threat vectors involving autonomous AI agents and LLM-scale phishing to outline defense frameworks and create security education content targeting low-tech-literacy users
- Leveraged interactive AI tooling to accelerate development of interactive activities, practical examples, animations
- Designed a lightweight static site architecture ensuring rapid performance, low latency, and minimal attack surface

Digital Blog & Portfolio | *Figma, HTML, CSS, Git, Oracle Cloud, Nginx, Cloudflare* — May 2025 - Sept. 2026

- Deployed web architecture on Oracle Cloud Infrastructure (OCI) using Nginx web servers & Cloudflare DNS/security routing. Automated CI with GitHub Actions
- Configured server blocks, reverse proxy rules, and HTTPS certificates to maintain web reliability & secure delivery

BoomFrame | *Python, REST APIs, JSON, HTTP, Git, Qt* — December 2024

- Developed desktop Python application with Qt designed GUI, using RESTful HTTP APIs and JSON data to evaluate live market data across **3,000+** items
- Integrated Async data processing to handle large datasets efficiently, filtering output for relevant searching and visual graphical representations
- Engineered automated installation package to simplify deployment on end-user systems, enabling anyone to use with low technical knowledge barrier

Technical Skills

Infrastructure & Cloud: Linux (Kali/Oracle/Ubuntu), Virtualization (Proxmox), Containerization (Docker), Oracle Cloud (OCI), DevOps, Cloudflare, Nginx, ServiceNow, Salesforce, Incident Response
Networking & Security: TCP/IP, OSI Model, DHCP, SSH, pfSense Firewall, Network Segmentation, CIA Triad
Languages & Scripting: Python, Bash, PowerShell, C, Java, HTML/CSS, RISC-V Assembly
Tools & Practices: Git, GitHub Actions, REST APIs, JSON, VS Code, System Diagnostics, Technical Documentation