RICHARD HUO

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EDUCATION

Baruch College, Zicklin School of Business — New York, NY

BBA Business Administration - Computer Information Systems, Concentration: Cybersecurity | Minor: Mathematics

- GPA: 3.96/4.0 (95 credits completed); Expected Graduation: 12/2027
- Academic Honors: Dean's List, 08/2024 – Present
- SANS Foundations Cybersecurity Course, Rockville, MD (02/2024 – 06/2024) — Linux, Python, C++, internet protocols, Kali Linux, red/blue team operations
- The Knowledge House, Bronx, NY (07/2023 – 06/2024) — 100+ hours of HTML, CSS, JavaScript, and UX/UI instruction

SKILLS & CERTIFICATIONS

Skills (See my LinkedIn for a complete list):

- **IT Audit, GRC & Compliance:** Risk and Control Matrix (RCM) development, ITGC testing, control design & effectiveness evaluation, audit-style documentation, GDPR/HIPAA compliance
- **Network, Cloud & Infrastructure:** Network design (high availability, segmentation, defense-in-depth), Cisco Packet Tracer, AWS (EC2, S3, VPC, IAM), Microsoft Azure, VMware/Hyper-V/VirtualBox
- **IAM Management, Cryptography & Security Operations:** MFA, privileged access management, PKI, TLS, digital signatures, SIEM (Splunk), incident response, digital forensics, vulnerability management
- **AI, DevOps & Data Governance:** Prompt engineering, LLM security (OWASP Top 10), secure SDLC, CI/CD (GitHub Actions), data governance, disaster recovery, ethical hacking
- **Programming & Tools:** Python (Pandas, PyTorch, pytest), SQL, Java, JavaScript, HTML/CSS; Splunk, Wireshark, Kali Linux, Cisco Packet Tracer, Git/GitHub, Prowler

Certifications: Google Cybersecurity Professional Certificate (03/2025); GIAC Foundational Cybersecurity Technologies – GFACT (06/2024 – 06/2028)

CYBERSECURITY & TECHNOLOGY EXPERIENCE

Tech Talent Pipeline Residency Program (TTPR) Apprenticeship at Baruch College, New York, NY **06/2026 – Present**

Cybersecurity Apprentice:

- Architected segmented, high-availability network topologies with redundant failover paths, applying defense-in-depth and deep packet inspection to detect and contain lateral movement
- Developed risk and control matrices mapping threats to mitigating controls, tested IT general controls for design and operating effectiveness, and documented findings and remediation aligned to GDPR and HIPAA
- Enforced least privilege through multifactor authentication, privileged access management, and entitlement reviews, and protected data in transit and at rest with encryption, hashing, and certificate lifecycle controls
- Correlated multi-source log data to triage alerts and drive incident response and forensic investigation, then prioritized vulnerabilities by exploitability and validated remediation through ethical hacking
- Secured cloud and CI/CD environments through SDLC controls, API authentication, and secrets management; hardened AI and LLM workflows against prompt injection using OWASP-aligned guardrails and adversarial testing

PROJECTS

TTPR Capstone Project: Secure Cloud Provisioner ("Sanctum") **08/2026**

- Served as Scrum Master and technical lead for a team of 4, delivering a platform that blocks insecure AWS and Azure resources at provision time instead of flagging them after deployment, eliminating the exposure window scan-after-the-fact tools leave open
- Engineered a provider-agnostic rules engine covering 15 AWS and Azure resource types behind one generic set of HTTP routes, citing every finding to CIS AWS Foundations Benchmark v5.0.0 and the AWS Startup Security Baseline with plain-language remediation guidance
- Implemented preventive controls including browser-side WebCrypto SSH key generation that never transmits a private key, mandatory IMDSv2, dual-confirmation deletes, expiring risk acknowledgements, and audit logging of every write
- Validated the platform with 1,041 automated tests in GitHub Actions CI and benchmarked findings against Prowler 5.37.1 (281 checks), documenting every coverage gap (github.com/Hhhectic/secure-cloud-provisioner)

Photon Timestamping (Solo)

- Constructed a photon arrival-time measurement rig, pairing the Arduino IDE with breadboarded and soldered custom hardware, and tested the rig against AlazarTech software

LEADERSHIP & INVOLVEMENT

Goldman Sachs Possibilities Summit **12/2024 – 12/2025**

- Selected for a year-long program working directly with Goldman Sachs professionals across technology and business divisions