

Andrew Zhang

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2023 – May 2026

- Candidate for Bachelor of Science in Computer Engineering, GPA 3.80
- Concentration: Information Internetworks and Cybersecurity

EXPERIENCE

DIB Cyber Compliance Vertically Integrated Program

Atlanta, GA

Member

January 2025 – Current

- Collaborated on cybersecurity assessments for small businesses to achieve compliance with the Cybersecurity Maturity Model Certification (CMMC).
- Applied cybersecurity frameworks, NIST 800-171 and DFARS to attain CMMC compliance.
- Developed and implemented networking concepts such as network segmentation and the OSI model to provide best practices for risk management.

Savannah Chatham County Public School System

Savannah, GA

Information Security and Cyber Defense Intern

June 2022 – August 2022

- Completed 2-week ISCD training. Mainly worked in Security Operations Center, using programs such as LogRhythm, Azure Active Directory, and Manage Engine.
- Managed and reviewed logs of all network activity, determining appropriate threat response and root causes.

Invention Studio at Georgia Tech

Atlanta, GA

Prototyping Instructor

October 2024 – Current

- Volunteer 3 hours a week, staffing the Makerspace, ensuring users use tools safely and appropriately.

PROJECTS

Hybrid Web Server Using Raspberry Pi and AWS | AWS, Docker, Load Balancing, DNS

- Containerized Pi using Docker, replicating images to EC2 instances with data stored on RDS.
- Using Route 53 to direct traffic to an ALB with an active-passive failover configuration.
- Reduced cost by off-loading unused instances using CloudWatch, SNS, and Lambda functions.

Portfolio Website Hosted on Raspberry Pi | LAMP, ZAP, HTML/CSS, SSL, WAF, CSP

- Hosted a LAMP stack web server secured with SSL and a WAF using ModSecurity.
- Tested vulnerabilities with OWASP ZAP, hardening website configuration with content security headers.
- Configured the Pi on home network to allow port forwarding and remote access using a VPN.

Azure AD Implementation for a Restaurant Scenario | Microsoft Entra ID – Policy, MFA

- Deployed multifactor authentication using conditional access policies.
- Created groups, users, and customer roles with role-based access control.
- Designed a small network with considerations of defense in depth and network segmentation.