

# Christopher Gossmann

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## EDUCATION

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### Georgia Institute of Technology — GPA: 4.0/4.0

Atlanta, GA

*Bachelor of Science in Computer Science — Cybersecurity, Systems and Architecture*

*Graduation: Dec 2027*

- Member of GreyHat cybersecurity CTF competitive team, SHPE, and Calisthenics Club
- Relevant Coursework: Analysis and Design of Algorithms, Data Structures and Algorithms, Object-Oriented Programming, Honors Discrete Mathematics, Abstract Linear Algebra, Computer Organization and Programming, Systems and Networks, Privacy Tech Policy Law, Human Dimension of Cybersecurity

## EXPERIENCE

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### Cybersecurity Intern

May 2025 – Aug 2025

*CMI – Corporación Multi Inversiones*

*Guatemala City, Guatemala*

- Investigated SOC alerts in Stellar Cyber SIEM, reviewed Runbooks and acceptance certificates for 121 alerts, and created a SOC operations guide summarizing categories, workflows, and escalation processes for alerts.
- Conducted vulnerability scanning and prioritization in Tenable.io, migrating a 1,148-asset inventory to monitor.
- Collaborated with cross-functional teams to remediate 21 vulnerabilities, providing risk mitigation strategies.
- Participated in live penetration testing and reviewed technical security reports.
- Evaluated 3 SaaS providers' software architectures for encryption protocols, data storage, compliance (SOC 2, ISO 9001, ISO 27001), and disaster recovery plans.

### Multi-Agent CTF System with MCP & Docker

Sep 2025 – Dec 2025

*Georgia Tech GreyHat Cybersecurity Club*

*Atlanta, GA*

- Built DARPA-inspired AI multi-agent CTF system with 6 specialized agents maintaining \$0.50 budget per challenge through 3-tier strategy (static analysis → cheap LLM → expensive LLM).
- Implemented MCP infrastructure with PyGhidra (10+ tools) servers enabling zero-cost reverse engineering and exploitation capabilities via JSON-RPC 2.0.
- Adapted a Docker environment with automatic PyGhidra installation, and pre-configured CTF toolchain.
- Developed thread-safe budget manager with per-challenge \$0.50 limits, tiered pools, timeout protection, and orchestration supporting several solving strategies.

### AI Title Generation Research

Jul 2022 – Nov 2022

*InspirAI*

*Remote*

- Developed and tested four NLP models, improving title generation accuracy by 66% with a Long-Short Term Memory model, achieving a cosine similarity score of 0.9032.
- Preprocessed over 20,000 research papers by tokenizing and cleaning data to train and test title generation models.
- Applied ML techniques (CountVectorizer, Word2Vec, and TensorFlow's Keras) to build and refine models.
- Improved model performance by 49% using cosine similarity metrics for accuracy and readability.

## ACTIVITIES

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**Competitive CTF with GreyHat:** 401 points in CSAW'25 quals, helped the team qualify for finals

**Rythm Guitarist:** GT Heartstrings, original music on all music platforms

## SKILLS

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**Programming Languages:** Python, Java, Javascript, C, x86-64 Assembly Intel Syntax

**Tools:** Stellar Cyber SIEM, Tenable.io, PowerShell, CMD, Azure AD, Windows AppLocker, TensorFlow, Scikit-learn

**CTF:** XSS, SQL Injection, Bruteforce, Burp Suite, Webhook, DevTools, Linux, CTF Writeups, Binary Exploitation

**Languages:** Spanish (Native), English (Proficient), German (Intermediate)

## ACHIEVEMENTS

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### Swim Team Captain

Jul 2022 – Jul 2024

*Waterproof Swim Academy/Atlantis Swim (Founder)*

*Guatemala City, Guatemala*

- Holder of 26 national records in Guatemala across various age groups; represented Guatemala in international competitions, including Junior World Championships and Pan American Games.