

Divesh Gupta

Divesh.Gupta@uga.edu | (301) 676-1859 | linkedin.com/in/divesh2027 | github.com/Legendile7

EDUCATION

University of Georgia

BS in Computer Science

Athens, GA

August 2027

Involvement: ARES Initiative (Zero Day Researcher), Game Builders Club (Web Officer), Devdogs (Frontend Lead), UGAHacks

SKILLS

Cybersecurity: Splunk, Linux, Active Directory, Access Control, Ghidra, angr, Binwalk, QEMU, Burp Suite, Nmap, Wireshark, Volatility, FTK Imager, CIS IG1, NIST CSF

Programming: Python, C, C#, Java, JavaScript/TypeScript, SQL, JSON, Assembly (x86)

Full-Stack: React, Next.js, Flask, Docker, Cloudflare, Supabase, Git

Artificial Intelligence: Agentic AI, Model Context Protocol (MCP), NLP, Predictive Analytics, Computer Vision, OpenCV

PROJECTS

Firmware Zero-Day Pipeline, Automated Vulnerability Research

August 2026 - Present

- Develop an automated LLM-powered (Codex + Qwen) firmware analysis pipeline, rehosting binary firmware images under QEMU emulation to pair dynamic testing with static analysis and surface candidate zero-day vulnerabilities.
- Discovered 3 zero-day vulnerabilities to date and reproduced 1 on physical router hardware, now working through coordinated disclosure with the vendor.

Alpha, Autonomous CTF Solving Framework

September 2026 - Present

- Built a Python framework for autonomous CTF solving that runs an AI controller per challenge, executing only policy-approved commands in isolated Docker containers.
- Architected and deployed it for CSAW CTF Qualifiers 2026, where the team placed 2nd in US/Canada.

ESP32 Gateway Security Research, CSAW Embedded Security Challenge 2026

September 2026 - Present

- Co-authored an IEEE-format paper with a faculty advisor on surfacing concurrency, classifier, and RFID/EEPROM bugs in smart-home gateways by recording multi-stream peripheral evidence in emulation; advanced to the national finals.

The Hack Pack Website | thehackpack.org

January 2026 - Present

- Built and scaled thehackpack.org to 150+ users with 50+ categorized practice CTF challenges and isolated Fly.io instances for hands-on cybersecurity training covering 10+ categories.
- Engineered leaderboard-driven profiles and built-in competition hosting on Cloudflare/Supabase serverless infrastructure to support engagement and national-competition preparation.

EXPERIENCE

UGA CyberArch

Athens, GA

Research & Development Lead

December 2024 - Present

- Conduct risk reviews for 5+ organizations using CIS Implementation Group 1 controls and elements of the NIST Cybersecurity Framework (NIST CSF).
- Develop standardized cybersecurity frameworks and R&D workflows to streamline program-wide clinic operations.
- Design and facilitate cybersecurity summer camps for 50+ high school students.
- Present the cybersecurity clinic model at national conferences to audiences of 100+ attendees.

The Hack Pack | ctftime.org/team/315917

Athens, GA

Founding President

January 2024 - Present

- Founded and grew UGA's applied cybersecurity club to 300+ members since founding, delivering 10+ technical workshops on cryptography, web exploitation, password cracking, and forensics.
- Led the competition team to national placements across 10+ events, including NSA Codebreaker.
- Earned UGA's New Student Organization of the Year award.

VaultPoint Systems

Athens, GA

Co-Founder

May 2026 - Present

- Co-founded an early-stage startup through UGA's Franklin CREATE program and lead product and technical direction across two SaaS products: Zetadeck (live) and RiskGuard (in design).
- Leading engineering team, owning sprint cadence and releases from prototype to public launch; Zetadeck reached #1 Daily on Open-Launch.

CERTIFICATIONS

GIAC Security Essentials (GSEC, SANS Institute), GIAC Foundational Cybersecurity Technologies (GFACT), Google Cybersecurity Certificate, CompTIA Security+ (expired April 2026), Splunk Certified Cybersecurity Defense Analyst (in progress)

AWARDS & HONORS

- Cybersecurity Competitions: CSAW CTF Qualifiers (2nd place, US/Canada), NCAE CyberGames (2nd place, regionals), CSAW Embedded Security Challenge (Finalist), National Cyber League (99th percentile)
- EDUCAUSE Professional Pipeline Student Scholar (August 2026)
- Honorable Mention, UGAHacks 11 (February 2026)