

# Shiva Shashank Kusuma

🟢 [Schedule Call](#) | [United States](#) | (940) 758-4074 | [shashanktechcs@gmail.com](mailto:shashanktechcs@gmail.com) | [linkedin.com/in/shashankpie](https://www.linkedin.com/in/shashankpie) | [github.com/shashankpie](https://github.com/shashankpie)

Dual Master's graduate in Cybersecurity & Computer Science, 2x DEF CON & BlackHat speaker while in college, co-creator of open-source ROP ROCKET tool, and AWS Security Specialty & Solutions Architect certified; (no visa sponsorship required).

## Education

University of Alabama

Huntsville, AL

Master's in **Cybersecurity** – 3.7/4.0 CGPA

Graduated: **May 2025**

Master's in **Computer Science** – 3.6/4.0 CGPA

Graduated: May 2024

SR Engineering College

India

Bachelor's in **Computer Science** – 3.15/4.0 CGPA

Aug 2016 – Nov 2020

## Technical Skills

**Languages:** Python, JavaScript (ES6+), HTML, CSS, Assembly Language (x86)

**Technologies/Frameworks:** React, Next.js, Express.js, REST APIs, AI/LLMs, Prompt Engineering

**Tools/Platforms:** Git/GitHub, Bash, Windows, Linux, MacOS, VS Code, Version Control, AWS Cloud

**Cybersecurity:** Reverse Engineering, Software Exploitation, ROP (code-reuse attacks), Windows APIs

## Experience

**Research Assistant - Cybersecurity**

Aug 2022 – May 2025

Verona Lab, UAH

Huntsville, AL

- **Co-authored** multiple research papers and submitted a novel exploit to Exploit-DB within the first 2 years.
- Co-authored and **co-created** ROP ROCKET ([open-source](#)) and presented it as a **co-speaker** at Defcon 2023 [info: [link](#)].
- Developed more than 150 working ROP patterns that can exploit Windows along with Process Injection techniques [[paper](#)].

**Mobile Application Developer Intern**

May 2020

UrbanRider

Hyderabad, India

- Mastered Flutter within 1 week to deliver production-ready cross-platform app, reducing onboarding time by 75%.
- Built manager app, deploying 15+ features that improved efficiency by 40% and cut deployment cycle from 2 weeks to 3 days.

## Projects

Geekyboy | Technologies: Java, Android Studio, WordPress, Firebase

Nov 2017 – April 2019

- Tech related Android app (**50k+** Downloads), Website (**100k+** Stats), **150** Rank in Google Play Store.
- Researched and Implemented ASO gaining huge traffic (2k+ downloads/day) with an average **4.7/5**-star.

AI Research Paper Assistant | Technologies: Python, OpenAI API

Feb 2025

- Developed AI-powered research assistant processing 1000+ arXiv papers daily, reducing manual research time by 80%.
- Integrated summarization generating 200-word abstracts in <5 sec, enabling researchers to review 50+ papers/hour vs 5.

## Achievements

- 2x Speaker at **DEF CON** official talk – 2023, 2024 [info: [link](#)]
- Co-speaker at BlackHat Arsenal – 2024 [info: [link](#)]
- Secured a top 3 position in the 48-hour WittyFeed coding hackathon

## Certifications

**AWS Certified Solutions Architect** – Associate

Amazon Web Services (AWS)

**AWS Certified Security** – Specialty

Amazon Web Services (AWS)

AWS Certified AI Practitioner

Amazon Web Services (AWS)