

# Shiva Shashank Kusuma

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## Education

University of Alabama

*Huntsville, AL*

Master's in **Cybersecurity** – 4\*/4 GPA

Expected: **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:** JavaScript (ES6+), TypeScript, HTML5, CSS3, Python, SQL (MySQL), Assembly Language (x86)

**Technologies/Frameworks:** React, Redux, Next.js, Node.js, Express.js, Tailwind CSS, REST APIs

**Tools/Platforms:** Git/GitHub, Bash, Windows, Linux, MacOS, VS Code, AWS, Firebase

**Cybersecurity:** Reverse Engineering, Malware Analysis, Software Exploitation, ROP (code-reuse attacks)

## Experience

**Security Research Assistant**

Aug 2022 – Present

*Verona Lab, UAH*

*Huntsville, AL*

- **Co-authored** a research paper and submitted a novel exploit to Exploit-DB within a 12-month period
- Worked closely with a professor in the lab to create ROP Rocket and presented it as a **co-speaker** at Defcon 2023 [info: [link](#)]
- Developed more than 100 working ROP patterns that can exploit Windows along with Process Injection techniques [[paper](#)]

**Mobile Application Developer Intern**

*UrbanRider*

*Hyderabad, India*

- Learned and developed cross-platform applications using Flutter Framework within a week.
- Engineered UrbanRider manager app using Flutter/Dart for Front-end, Firebase for Back-end.
- Maintained the codebase single-handedly while integrating the new features into the app in real-time.

## 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.

Decentralized Chat DApp | Technologies: Blockchain/Web3, React.js, gun.js

April 2022

- Built a decentralized chat app that can handle 1000's of mgs/sec, scales around the world with free of cost.
- The data and infrastructure are not controlled by a centralized authority like AWS/Azure/GCP.

## Achievements

- 2x Speaker at **DEF CON** official talk – 2023, 2024 [info: [link](#)]
- Co-speaker at BlackHat Arsenal – 2024 [info: [link](#)]
- Won 4<sup>th</sup> prize in 48-hour WittyFeed coding hackathon

## Certifications

**AWS Certified Solutions Architect** – Associate

Amazon Web Services (AWS)

Responsive Web Design – JavaScript

FreeCodeCamp

Data Structures and Algorithms – Python

NPTEL