

# Shiva Shashank Kusuma

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## EDUCATION

### University of Alabama

Master's in Computer Science - **3.33/4.0 GPA**

Huntsville, AL

Aug 2022 – Present

### University of North Texas

Master's in Computer Science - **3.33/4.0 GPA**

Denton, TX

Jan 2022 – July 2022

### SR Engineering College

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

India

Aug 2016 – Nov 2020

## EXPERIENCE

### Graduate Assistant

University of Alabama

Aug 2022 – Present

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
- Mastered ASM, deepening understanding of core computer operations and enhancing optimization capabilities
- Identified and addressed software vulnerabilities using reverse engineering and malware analysis for robust code
- Acquired a strong foundation in computer security, enhancing problem-solving skills for complex software challenges

### Mobile Application Developer Intern

UrbanRider

May 2020

Hyderabad, India

- Learned and Developed cross-platform applications using Flutter Framework within a week
- Built UrbanRider manager app using Adobe XD for Design, 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

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, HTML/CSS, JavaScript, SQL (MySQL), Assembly language (x86)

**Technologies/Frameworks:** React, Next.js, Node.js, Flutter, Tailwind CSS, Blockchain/Web3

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

**Computer Security:** Reverse Engineering, Malware Analysis, Software Exploitation

## 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 msgs/sec, scales around the world with free of cost.
- The data and infrastructure is not controlled by a centralized authority like AWS/Azure/GCP.

### Hand Gesture Recognition | Technologies: Python, OpenCV, Tensorflow

May 2019

- Developed a Chrome web extension in 48hr coding hackathon to control the web browser using hand gestures.
- Users can navigate through the browser, play/pause videos, adjust sound, search, scroll, etc.

## ACHIEVEMENTS

- Co-speaker at **DefCon** official talk - 2023
- Won 4th prize in 48-hour WittyFeed coding hackathon
- Created educational content on youtube and garnered **1500+** subscribers

## CERTIFICATIONS

Responsive Web Design

FreeCodeCamp

Data Structures and Algorithms

NPTEL