Shiva Shashank Kusuma

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EDUCATION

University of Alabama	Huntsville, AL
*Master's in Computer Science - **3.5/4.0** GPA*	*Aug 2022 – Present*
University of North Texas	Denton, TX
*Master's in Computer Science - **3.33/4.0** GPA*	*Jan 2022 – July 2022*
SR Engineering College	India
*Bachelor's in Computer Science - **3.15/4.0** CGPA*	*Aug 2016 – Nov 2020*

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL (MySQL), Assembly languae (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, ROP

EXPERIENCE

Graduate Assistant — Aug 2022 – Present
University of Alabama — *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 — May 2020
UrbanRider — *Hyderabad, India*
- Learned and Developed cross-platform applications using Flutter Framework within a week
- Built 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 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 — JavaScript	FreeCodeCamp
Data Structures and Algorithms — Python	NPTEL