Tarun Ayyagari

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• github.com/tarunaygr/

SUMMARY

Master in Science Computer Science student with internship experience in Computer Networks seeking internship opportunities starting Summer 2023 in Computer Security and related fields.

EDUCATION

Master in Science Computer Science   Expecting May 2024
Arizona State University, Tempe, AZ

B.Tech. Computer Science and Engineering   May 2022
National Institute of Technology Calicut, Kerala, India   8.16 CGPA
Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Security, Computer Security Lab, Number Theory and Cryptography

TECHNICAL SKILLS

Programming Languages: C, C++, C#, Python, JavaScript, Bash
Tools, Databases, and OS: PostgreSQL, MySQL, Ansible, Git, GitHub, Windows, Unix/Linux
Computer Security: Burpsuite, Metasploit, Pfsense
Game Development: Unity, Unreal Engine, Blender

PROFESSIONAL EXPERIENCE

Cisco Systems, Bangalore, India: Technical Undergraduate Intern   05/2021 - 07/2021
- Developed a tool for automation of deployment of virtual switches and routers on VMware ESXi server using **Python** and **Ansible**
- Formulated a **Python** script to automate configuration of deployed virtual machines
- Deployed tool for internal use at Cisco Systems

RELEVANT PROJECTS

Exploring Lightweight S-boxes Using Cellular Automata and Reinforcement Learning, *Research Project*   Spring 2022
- Used Reinforcement Learning to design Cellular Automata based Substitution boxes with good cryptographic properties
- Paper accepted into Cellular Automata for Research and Industry (ACRI) 2022 Conference
- Won Best Project of BTech CSE 2022 Passouts

Assembly Game Simulation   Summer 2022
- Designed and led development of a game in **Unity** and **C#** under Dr. Vinay Panicker

Keystroke Logger, *Course Project*   Spring 2022
- Built a keystroke logger using **Python**
- Program is disguised as a game which when run, starts logging keystrokes and sends to a listener IP address

eXpOS (Operating System), *Course Project*   Fall 2020
- Developed an experimental operating system based on **C**
- Programmed OS functionalities including demand paging, kernel stacks, procedure calls, semaphores, disk access etc.

Database Management System, *Course Project*   Fall 2020
- Built a Database Management System using **PostgreSQL** for a school system and allowed for multi-level Data access for different roles of users
- Developed a web interface using **Node.JS** to interact with the database

EXTRACURRICULAR EXPERIENCE

National Institute of Technology Calicut, Kerala, India: Placement Representative for CSE   05/2021 - 05/2022
- Coordinated job placement activities for final-year Computer Science students
- Represented concerns of Computer Science students regarding the placement process

National Institute of Technology Calicut, Kerala, India: Game Development Workshop
- Conducted a workshop on Game Development in **Unity** and **C#** in association with IEEE