Shubham Batra

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Education

University of California, Riverside   **Expected Graduation: June 2022**
Bachelor of Science in Computer Science   *Riverside, California*

Technical Skills

Tools

- C++ (Intermediate)
- Python (Basic)
- MATLAB (Beginner)
- HTML/CSS (Beginner)
- LaTeX (Beginner)

Technologies

- Git (Intermediate)
- Github (Intermediate)
- Linux (Intermediate)
- Vim (Intermediate)
- Skeleton (Intermediate)
- Scapy (Basic)
- Node.js (Beginner)
- React.js (Beginner)
- Firebase (Basic)

Professional Experience

University of California, Riverside   **June 2019 – August 2019**
Cybersecurity Research Intern   *Riverside, California*

- Started the development of an internet botnet scanner using Python with the help of tools such as Nmap, Scapy, and Wireshark
- Utilized concepts about network security and communications along with specifics relating to packet manipulation, botnet communications, sockets, and OSI models
- Produced an abstract and gave a formal presentation in a research symposium

Notable Projects

Personal Website | *Available on GitHub*   **March 2020 – Present**

- Built a personal website using the Skeleton framework on top of HTML and CSS

Music Database | *Available on GitHub*   **January 2020 – Present**

- Allows the user to rate albums and view albums based on rating
- Back-end uses Firebase for storing ratings and album names while front-end uses HTML and CSS for website design
- Saves user precious time compared to manually looking through a long unordered list

Professional Involvement

Association of Computer Machinery (ACM) at UCR   **October 2019 – Present**
Active Member

- Attend developmental workshops to gain experience with new concepts and new technologies
- Participated in hackathons to compete and gain experience

Citrus Hack   **February 2020 – March 2021**
Sponsorship Fellow

- Participated as sponsorship fellow for Citrus Hack, the largest hackathon in Riverside, and helped raise over $5000 for the 2020 edition
- Initiated contact with many companies to to obtain sponsorships

Cybersecurity at UCR   **October 2019 – August 2020**
Active Member

- Learned about important security issues and exploits
- Focused on learning security from both an offensive and defensive mindset

Relevant Classes

- Software Construction
- Discrete Structures
- Automata and Formal Languages
- Intro to Embedded Systems
- Intro to Artificial Intelligence
- Design of Operating Systems