



# Shubham Batra

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## EDUCATION

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**University of California, Riverside**  
Bachelor of Computer Science

Expected Graduation: *June 2022*

**Recent Classes:** Discrete Structures, Computer Architecture, Software Construction, Data Structures & Algorithms, Automata and Formal Languages

## TECHNICAL SKILLS

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**Tools:** C++ (Proficient), Python (Basic), MATLAB (Beginner), HTML/CSS (Beginner), LaTeX (Intermediate)

**Technologies:** Git/GitHub, Linux, Vim, Skeleton (Framework), Nmap, Scapy, Wireshark

## PROFESSIONAL EXPERIENCE

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**University of California, Riverside**  
*Cybersecurity Research Intern*

*June 2019 - August 2019*

- Created initial progress towards a scanner with Python that will eventually identify botnets on the internet using tools such as Nmap, Scapy, and Wireshark
- Utilized concepts about network security and network 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

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**Personal Website** | shubham-batra.github.io

*March 2020 - Present*

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

**Music Database** | themusicforest.me

*January 2020 - Present*

- Allows the user to rate and put an album into Firebase and retrieve albums with a certain score
- Saves the user precious time rather than looking through a long unordered list
- Frontend created through JavaScript and HTML

## PROFESSIONAL INVOLVEMENT

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**Association of Computer Machinery (ACM) at UCR** | Active Member

*October 2019 - Present*

- Participated in the Cutie Hack and Rose Hack hackathons and intend to participate in future hackathons primarily to learn about new technologies
- Attended developmental workshops to gain experience with new concepts and new technologies

**Cybersecurity @ UCR** | Active Member

*October 2019 - Present*

- Learned about important security issues and exploits by active participation
- Understand security from both an offensive and defensive mindset

**Citrus Hack** | Sponsorship Fellow

*January 2020 - Present*

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