



Shubham Batra

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EDUCATION

University of California, Riverside (UCR)

Expected Graduation: December 2021

B.S. Computer Science

TECHNICAL SKILLS

Languages

- > C++ (Proficient)
- > Python (Basic)
- > C (Proficient)
- > MATLAB (Basic)
- > Java (Basic)

Technologies

- > Git
- > Nmap
- > Vim
- > GitHub
- > Scapy
- > Linux
- > Wireshark

EXPERIENCE

University of California, Riverside | Research Intern in Cybersecurity

June 2019 - August 2019

- > Created initial progress towards a scanner with Python that will eventually identify botnets on the internet
- > Learned about various network security and network communications concepts including but not limited to packet manipulation, botnet communications, sockets, and OSI models
- > Worked with tools such as Nmap, Scapy, and Wireshark which aided towards progress
- > Produced an abstract and gave a formal presentation in a research symposium

NOTABLE PROJECTS

Music Database | themusicforest.me

January 2020 - Present

- > Created to organize my personal favorite albums for which I had rated in a document
- > Allows the user to rate and put an album into a database (Firestore) and retrieve albums with a certain score
- > Frontend created through JavaScript and HTML

Airline Ticket Booker | Available on GitHub

September 2019 - Present

- > Created a program in C++ in which a user can book fictional airplane tickets and gather information from a built-in database
- > Designed the program so it uses various object-oriented programming concepts to create an efficient design

PROFESSIONAL INVOLVEMENT

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
- > Attending developmental workshops to gain experience with new concepts and new technologies

Cybersecurity @ UCR | Active Member

October 2019 – Present

- > Learning about important security issues and exploits
- > Understanding security from both an offensive and defensive mindset

RELEVANT COURSEWORK

Current Coursework

- > Logic Design
- > General Physics II

Prior Coursework

- > Introduction to Data Structures & Algorithms
- > Introduction to Discrete Structures
- > Programming Concepts & Methodology II
- > Calculus Series