SHUBHAM BATRA

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Summary

Soon to be graduate seeking an entry-level software engineering position focusing preferably on data science or front-end development. Looking for a role to grow and learn from experienced engineers while drawing on project experience already successfully executed.

Education

University of California, Riverside   **Expected Graduation: June 2022**
B.S. in Computer Science

Technical Skills

Languages: C++, Python, HTML, CSS, Javascript
Version Control: Git, GitHub
Libraries: Skeleton, Pandas, Matplotlib, Seaborn, NumPy, React.JS, Node.JS, Express.JS
Databases: MongoDB
Other: Linux, Vim, LaTeX

Professional Experience

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

- Initiated the development of an efficient internet botnet scanner built in Python with the assistance of Nmap and Scapy to scan networks
- Implemented testing by creating a mock program that can generate network traffic to a destination address
- 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

Spotify Playlist Analysis | *Available on GitHub*   **July 2021 – August 2021**

- Generated a thorough analysis via the Spotify API that compares the Spotify playlists from two different users using Matplotlib to graph differences and Scikit-learn to train data
- Achieved an 87% accuracy on sample data using two features that help decide song association with a user

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

- Created a personal portfolio containing projects, accomplishments, and statistics primarily constructed using the Skeleton framework

R'Availability - Senior Design   **October 2021 – March 2022**

- Collaborated with partner to develop a website for users to check the occupancy of campus seating spaces to help save up to hours of otherwise wasted time
- Developed full front-end and back-end of website using MERN stack while aiding hardware team as needed

Professional Involvement

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

- Contributed as a sponsorship fellow for Citrus Hack, the largest hackathon in Riverside, and collectively raised over $5000 for the 2020 edition by initiating contact with numerous companies to obtain sponsorships

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

- Attended 10+ developmental workshops and competed in hackathons to gain experience with new technologies and novel concepts

Relevant Classes

- Software Construction
- Automata & Formal Languages
- Intro to Artificial Intelligence
- Design of Operating Systems
- Intro to Data Science
- Unix System Administration
- Intro to Machine Learning & Data Mining
- Intro to Data Structures & Algorithms