

Ashmita Rajkumar

San Francisco | LinkedIn: ashmitar | GitHub: ashmitarajkumar | 408.914.0049 | ashmita.rajkumar@vanderbilt.edu

EDUCATION

Vanderbilt University | B.S. Computer Science, Minor Engineering Management **2020 – 2022 (Expected)**

- GPA: 3.91, Dean's Honor List (all semesters)
- Technical Skills: C++, Java, C Programming, Python, Kali Linux, Swift, Javascript, Html/CSS

PROFESSIONAL EXPERIENCE

Gap Inc. | Software Engineering Intern **June 2021 – August 2021**

Schneider Downs & Co. Inc. | Cyber Security Intern **June 2020 – August 2020**

- Streamlined the reconnaissance process using Kali Linux, Recon-ng, Website scrapers, Nessus, OWASP ZAP and Nmaps to assess network strength and perform thorough port scans to gain access to corporate networks and infrastructures
- Developed a comprehensive password dictionary to optimize the password spraying process
- Maintained and updated company SOPs for web application, cloud, and network penetration tests
- Created and deployed phishing campaigns using company's internal tool RedLure

NASA Ames Research Center | Data Analysis Intern

May 2019 – August 2019

- Examined and extracted data from all United Nations member countries' medical requirements for space exploration
- Collected large amounts of data from NASA medical requirements for space exploration and determined the discrepancies in medical protocols across an international apparatus

PROJECTS

Medical Image Analysis and Statistical Interpretation Lab | Research Assistant **January 2021 – Present**

- Reviewed 300 CT scans and annotated organs accurately to help physicians identify anomalies and diseases in a prompt manner
- Discovered innovative deep learning algorithms using Python to immediately process CT scans to identify liver disease with 99% accuracy

SANP

April 2021 – Present

- Built a spatial awareness navigation planner in Swift that accurately alerts users events are planned without adequate time in between to avoid delays

acME

August 2020 – December 2020

- Developed an Android application that analyzes users' photos and diagnoses the types of acne in the picture based on redness and color saturation
- Created an extensive database with user photos and medical images to compare photos against to increase accuracy of diagnosis

WeShop

May 2020 – Present

- Created a platform using ReactJS, Firebase, and Python to connect elderly users to shoppers during the Covid-19 pandemic

MedHack

January 2016 – Present

- Engineered a preventative solution to personal and enterprise network intrusion detection using Java
- Designed an innovative and efficient way to index the operating system level files using MD5 hash values
- Awarded the Intel ISEF grand prize alternate award with reimbursed trip to California State Science Fair

LEADERSHIP EXPERIENCE

Hack412 | Sponsorship and Finance Chair

June 2020 – August 2020

- Forged relationships with companies in the Greater Pittsburgh Area to spread awareness about different technologies in the industry and raised funds through means of fundraising and establishing partnerships

University of Pittsburgh | Resident Assistant

April 2019 – August 2020

- Cultivated a safe space for 20 residents and fostered a sense of community and leadership within the building
- Planned and budgeted for events ranging between 20 and 200 students while completing necessary procedures to ensure student safety.

South Asian Malaria Foundation | President

January 2014 – Present

- Founded an organization that promotes global medical advocacy and raised over \$4000 in grant money
- Provided preventative measures against malaria to over 3500 orphans in Southern Asia and spread awareness about the different types of diseases and symptoms that could be transmitted

AWARDS

Alpha Vantage Hackathon Judges Pick, Ryerson University Hackathon Special Award, Wolfram Alpha Challenge Prize, Browne Fellowship Recipient