Robert Smithers

smitherr@bc.edu | github.com/RobertSmithers
robertsmithers.github.io | linkedin.com/in/robert-smithers/

EDUCATION

Boston College, Chestnut Hill, MA May 2022
Bachelor of Science in Computer Science **GPA:** 3.8

Relevant Courses:	Machine Learning, Computer Networks, Algorithms, Computer Systems, Computer Organization, Database Systems and Applications, Principles of Programming Languages, Visualization, Logic and Computation, Randomness and Computation
Activities:	BC Computer Science Society, BC Hack the Heights, Air Force ROTC, Intramural Volleyball, BC Portfolio Challenge, BC Table Tennis, BC Rocket League Team
Awards:	Sophomore Scholar, Dean's Scholar Nominee, Dean's List First Honors

Princeton High School, Princeton, NJ June 2018

PROJECTS

Det 355 – Flying Tigers iOS Application Fall 2019 – May 2022
- o Use XCode to develop a 5-star iOS application that is used for accessing cadet resources, establishing a social network, and uploading inspection score data to the cadet wing
- o Expand features to allow app to be utilized by 10,000 cadets at other detachments throughout the nation

Deepfake Detection December 2021
- o Construct a Generative Adversarial Network to outperform humans in differentiating real and fake video

Molecular Solubility Prediction November 2021
- o Graph Neural Networks trained on data generated from quantum chemistry libraries to predict chemical solubilities at speeds exponentially faster than leading quantum calculation softwares

BC Gym Signups February 2021
- o Implement an autonomous program using BC's gym signup website to secure highly competitive gym slots
- o Maintain subscription-based access keys to desktop client utilizing Firebase

PCGuard Spring 2019
- o Built a security application which monitors the health status and threat level of personal computers and devices
- o Features in-app security measures which interact with and secure the device through a paired computer software

WORK EXPERIENCE

Miercom – Technician / Software Engineer June 2016 – Present
- o Develop integrated penetration testing solutions on emerging technology vendors
- o Provide software-based cybersecurity defense and patching on back-end vulnerabilities
- o Lead programmer for optimizing usage of multi-million-dollar testbed hardware
- o Saved company $100,000 through enhancing infrastructure functionality and developing innovative improvements on content delivery mechanisms
- o Communicate with clients and work with 6 team members to ensure projects meet timeline expectations

Boston College Department of Computer Science – Head Teaching Assistant January 2019 – May 2022
- o Grade and instruct 15 hours a week for a total of 20 sections of computer science and object-oriented design courses
- o Host office hours for 5 hours a week to communicate with and assist students and professors

Zinna's Bistro – Server December 2015 – September 2018

LEADERSHIP EXPERIENCE

Air Force Reserve Officer Training Corps Fall 2018 – Present
- o Train 60 cadets in Air Force competencies preparing them for the Professional Officer Course
- o Attend 6 hours of classes and 6 hours of physical training weekly
- o On executive boards for Armed Forces Communications and Electronics Association, Arnold Air Society, Military Excellence Competition Team, and Phantom Armed Drill Team

VOLUNTEER EXPERIENCE

Boston Building Resources, Boston, MA Spring 2019
- o Packed and distributed home improvement supplies for low-income families in the surrounding communities

Cranbury First Aid Squad, Cranbury, NJ December 2015-August 2018
- o Provided Basic Life Support (BLS) as an Emergency Medical Technician (EMT)

SKILLS

Proficiencies: Python, Java, Swift, Linux, HTML, JavaScript, C, XML, PowerShell, OCaml, C++, C#, Perl, Bash Scripting
Industry Knowledge: Software Development, Amazon Web Services, Network Security, iOS Development, Penetration Testing, Artificial Intelligence, Machine Learning, GitHub, Docker, Kubernetes, Cryptography, Information Technology