

# Robert Smithers

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## EDUCATION

### Boston College, Chestnut Hill, MA

Expected May 2022

Candidate for Bachelor of Science in Computer Science

**GPA:** 3.78

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

### Princeton High School, Princeton, NJ

June 2018

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## PROJECTS

### Det 355 – Flying Tigers iOS Application

Fall 2019 – Present

- 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
  - Develop monthly updates to provide new features based on an in-app feedback system
  - Track individual cadet scores on knowledge and competencies through app-generated reports
- Maintain and oversee utilization of application for 80 cadets
  - Applies a login system to restrict access to sensitive data with annual account creation
  - Uses cadet login information to automatically generate user scores throughout the semester
- Expanding features to allow app to be utilized by 10,000 cadets at other detachments throughout the nation

### BC Gym Signups

February 2021

- Implement an autonomous Gym Signup program using BC's gym signup website to secure highly competitive gym slots

### Stock Market Predictor

Fall 2020

- Machine Learning project using Convolutional Neural Networks and Support Vector Machines to predict buy and sell classifications from historical daily stock price data

### PCGuard

Spring 2019

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

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## WORK EXPERIENCE

### Boston College Department of Computer Science – Teaching Assistant

January 2019 – Present

- Grade, instruct, and supervise for Computer Science II and Object-Oriented Design
- Host office hours for 5 hours a week to communicate with and assist students and professors

### Miercom – Technician / Engineer Intern

June 2016 – Present

- Conduct malware analysis and penetration testing on emerging technology vendors
- Provide cybersecurity defense and patching to web-based vulnerabilities

### Zinna's Bistro – Server

December 2015 – September 2018

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## LEADERSHIP EXPERIENCE

### Air Force Reserve Officer Training Corps

Fall 2018 – Present

- Train 60 cadets in Air Force competencies preparing them for the Professional Officer Course
- Attend 6 hours of classes and 6 hours of physical training weekly
- Member of Armed Forces Communications and Electronics Association, Arnold Air Society, Military Excellence Competition Team, and Phantom Armed Drill Team

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## VOLUNTEER EXPERIENCE

### Boston Building Resources, Boston, MA

Spring 2019

- Packed and distributed home improvement supplies for low-income families in the surrounding communities

### Cranbury First Aid Squad, Cranbury, NJ

December 2015-August 2018

- Provided Basic Life Support (BLS) as an Emergency Medical Technician (EMT)

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## SKILLS

**Proficiencies:** Swift, Linux, HTML, JavaScript, Java, Python, C, XML, PowerShell, OCaml, C++, C#, Perl, Bash Scripting

**Industry Knowledge:** Network Security, iOS Development, Software Development, Penetration Testing, Artificial Intelligence, Machine Learning, GitHub, Docker, Kubernetes, Cryptography, Information Technology, Web Development