

# Pranav Ahluwalia

505 43 Westland Avenue, Boston, MA 02115  
972-345-1701 • [ahluwalia.pr@husky.neu.edu](mailto:ahluwalia.pr@husky.neu.edu)

Portfolio: [www.prandev.com](http://www.prandev.com)

Linkedin: [linkedin.com/in/pranav-ahluwalia-a19221116/](https://www.linkedin.com/in/pranav-ahluwalia-a19221116/)

## EDUCATION

**Northeastern University**, Boston, MA

2017 - 2021

*College of Computer and Information Science*

Pursuing a BS in Computer Science and Cyber Operations, GPA: 3.3/4.0

*Relevant Coursework:* Logic and Computation, Database Design, Object Oriented Design, Algorithms

## TECHNOLOGY SKILLS

- Python, Racket, R, SQL, Java

## EXPERIENCE

**The MITRE Corporation**, Bedford, MA

May 2018 – August 2018

*Cyber Security Intern*

- Developed and deployed a web application to process live signal data and render a modular interactive visualization using R and Shiny
- Determined the ability of a secure compiler to generate ROP-Gadget resistant executables by aggregating, cleaning, and analyzing complex data on function placement, memory addresses, and VM environments across 500,000+ binaries
- Performed gap analysis on 24 methodologies, tools, and processes based on their ability to harden a weapon system in the face of advanced persistent threats

**FightDNA**, Dallas, TX

May 2017 - July 2017

*Data Science Intern*

- Created statistical analysis tools for boxing matches using R
- Implemented pattern matching in order to group combinations of actions based off of marginal time stamp factors

**UCSB Department of Statistics and Applied Probability**, Santa Barbara, CA

June 2016 - July 2016

*Lab Research Assistant (Research Mentorship Program)*

- Developed a methodology to predict trending stock prices using ARIMA models
- Predicted stock price movement of 4 stocks during a 3 month period with > 95% accuracy
- Co-Authoring research paper on effectiveness of the ARIMA model in predicting share behavior

## PROJECTS

**Piazza Forum Client Interface**, *CS Fundamentals I*

October 2017 – November 2017

- Built a functioning forum client interface in Racket over a period of 4 weeks
- Implemented server communication, posting, replying and searching functionality

**IOS Voice Modulator**

May 2017 – June 2017

- Leveraged AVAudioEngine to build an app that applies 6 different affects to recorded audio

## COMMUNITY INVOLVEMENT

**Volunteers For Israel/Israeli Defense Force**, Anata, West Bank

March 2018

*Sar-El Volunteer*

- Assured quality compliance of medical supplies and combat kits on IDF base, Implemented equipment storage systems and worked alongside soldiers in logistics department

## ACTIVITIES/INTERESTS

- Northeastern Wrestling Club, NU Virtual Reality Club, NU-EDM Club, Skeet & Trap