Pranav Ahluwalia

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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, Discrete Structures, Fundamentals of Computer Science II

TECHNOLOGY SKILLS

- Python, Racket, R, Swift/Xcode, Java, SQL

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   August 2016 - February 2017
Data Intern

- Used R programming to produce statistical analysis for boxing matches.
- Implemented pattern matching in order to group combinations of actions based off of marginal factors for time stamps.

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-Authored 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