

Pranav Ahluwalia

505 43 Westland Avenue, Boston, MA 02115
972-345-1701 • ahluwalia.pr@husky.neu.edu

Portfolio: www.prandev.com

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

EDUCATION

Northeastern University, Boston, MA

Class of 2021

Khoury College of Computer Sciences

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, R, SQL, Java, C

EXPERIENCE

The MITRE Corporation, Bedford, MA

July 2019 - December 2019

Cyber Security Engineering Co-op

- Developed command line parsing software for large-scale server-log analysis
- Optimized Kibana dashboards for statistical and forensic analysis of network activity
- Utilized Intel SGX for the development of secure database applications

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)

- 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

Invite/Waiting List Text Bot, Twilio, Python, Flask

- Handles inviting individuals to event, cancellations, confirmations, and waiting lists
- Allows for remote administration via iPhone shortcuts app (Writeup: <https://bit.ly/2teqJ47>)

Poker Decision Tree Generator, Java

- Generates a complete multi-street No Limit Hold'em decision tree
- Varies the complexity of the tree with respect to player stack sizes and bet sizes for in-depth analysis

Risk of Ruin Simulator for Random Walk Games, R

- Allows for the simulation of multi-player random walk investing/betting games to determine risk of ruin
- Featured on Towards Data Science: <https://bit.ly/35i06JN>