

# Pranav Ahluwalia

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Availability: September 2020 - December 2020

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

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## EDUCATION

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**Northeastern University**, Boston, MA

Class of 2021

*Khoury College of Computer Sciences*

Pursuing a BS in Computer Science and Cyber Operations, GPA: 3.1/4.0

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

## TECHNOLOGY SKILLS

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- Python, R, SQL, Java, C

## EXPERIENCE

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**Dell**, Hopkinton, MA

July 2020 - August 2020

*Incoming DevSecOps Intern*

**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 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 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

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**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/2teqI47>)

**Risk of Ruin Simulator for Random Walk Games**, R

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