

Pranav Ahluwalia

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EDUCATION

Northeastern University, Boston, MA

Class of 2022

Khoury College of Computer Sciences

Pursuing a BS in Computer Science with AI Concentration,

Relevant Coursework: Stochastic Processes, Linear Algebra, Algorithms, Logic and Computation, OOD

TECHNOLOGY SKILLS

- Python, R, SQL, Java, C, Flask, Shiny, Pandas, Numpy, Scikit Learn

EXPERIENCE

AcadiaSoft, Norwell, MA

September 2020 - Present

Software Engineer Co-op

- Developing margin-call analytics platform for OTC uncleared derivatives (Python, SQL)

Dell Technologies, Hopkinton, MA

June 2020 - July 2020

Software Engineering Intern (Vulnerability Management)

- Developed an internal threat intelligence platform using Python and Flask
- Integrated 3 data pipelines to map emerging vulnerabilities to asset exposure
- Designed a dashboard of 4 interactive visualizations to aid in threat remediation

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 an interactive visualization suite to process live radar signal data
- Measured the ability of a compiler to generate ROP-Gadget resistant executables by analyzing data on function placement, memory addresses, and VM environments across 500,000+ binaries

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-Authored research paper on effectiveness of the ARIMA model in predicting share behavior

PROJECTS

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

- Event invitations, cancellations, confirmations and waiting lists (Writeup: <https://bit.ly/2teqJ47>)

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

- Random walk investing/betting game simulations and risk of ruin calculation (Writeup: <https://bit.ly/35i06JN>)

Game Theory YouTube Channel

- Exploring poker strategy using data science and algorithmic game theory (link: <https://bit.ly/3b0LqT7>)

Online Poker

- 4.5 BB/100 win-rate across a sample of > 10,000 hands
- Robust strategy development combining statistical analysis with game theory research