

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 and Mathematics, GPA: 3.2

Graduate Coursework: Probability I, Statistical Learning Theory

Undergrad Coursework: AI, Algorithms, Stochastic Processes, Linear Algebra, Calc III, Real Analysis

TECHNOLOGY SKILLS

- Python, R, SQL, Java, C++, Git, Flask, Numpy, Scikit Learn

EXPERIENCE

AcadiaSoft, Norwell, MA

September 2020 - December 2020

Software Engineer Co-op

- Collaborated with core team on margin call analytics platform
- Automated merges on financial data dealing with peer metrics, exposure analysis, and risk (Python)
- Optimized data loading processes to boost client-side performance (SQL, Python)

Dell Technologies, Hopkinton, MA

June 2020 - July 2020

Software Engineering Intern (Vulnerability Management)

- Constructed 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>)

Greenhouse Crop Yield Prediction

- Developed an algorithm to [predict rose harvests](#) in partnership with a greenhouse