

# Altamash Ali

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## EDUCATION

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**Texas A&M University, College Station, TX**

December 2021

Bachelor of Science in Computer Science, Minors in Cybersecurity and Mathematics

GPA: 3.898

## SKILLS

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**Languages:** C++, Java, Python, JavaScript, HTML/CSS, Solidity, MPI, Bash/Shell, Scheme, HACK Assembly

**Environments/Tools:** Linux, UNIX, Windows, Splunk Enterprise, ExtraHop, SonarQube, Wireshark

**Certifications:** Eagle Scout, ExtraHop Basic User, Splunk 7.x Fundamentals Part 1

## EXPERIENCE

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**American Express**

Phoenix, AZ

Intern, Application Security and Software Analysis

July 2020 - August 2020

- Oversaw development and operation of vulnerability scanning tools in application development cycle
- Developed front-end of Splunk dashboard user interface by designing immersive panel visualizations from data ingested from various sources
- Developed back-end of Splunk dashboards by wiring REST API to allow data ingested from various sources such as WhiteHat, Jira, and Aquila to be parsed and indexed
- Constructed a 12-page report on the analysis and evaluation of a Static Application Security Testing (SAST) tool detailing recommendations on how to reconfigure the system to obtain optimal results
- Led integral role in development of an in-house, Dynamic Application Security Testing (DAST) tool needed to scan and discover the URL endpoints of a given domain overlooked by enterprise tools

**Texas A&M University – Security Operations Center**

College Station, TX

Student Security Analyst

November 2018 - August 2020

- Selected as one of ten students to lead inaugural Texas A&M Cybersecurity Apprenticeship Program
- Investigated security events from campus-wide data sources including Vectra and Proofpoint
- Gained exposure to various tools and alert types through daily investigations of network alerts
- Monitored campus network for any signs of potential compromise or breaches in policy
- Responded to threats, assisted in incident response & forensics investigations, mitigated risks
- Coded scripts in Python to automate routine tasks such as data collection

**University of Houston – Data Visualization and Modeling Lab**

Houston, TX

Senior Capstone Project Intern

August 2017 - May 2018

- Researched and analyzed effectiveness of vector fields in data visualization under Dr. Guoning Chen, a scientific data visualization analyst and researcher
- Developed a capstone project about Sustainable Urban Development focused on big data analysis and visualization techniques in urban planning and traffic dynamics

## PROJECTS

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**Lumichain – A comprehensive blockchain initiative and advocacy platform**

- A cryptocurrency token based on the ERC-20 standard and built on the Ethereum blockchain
- A private blockchain network with infrastructure developed in C++
- A blog advocating advancement of blockchain, privacy, and security

**Augmented Snake Game – The classic computer game rebuilt on modern machine learning**

- Developed game using Python for Deep Reinforcement Learning and MPI for code parallelization
- Distributed a machine learning game program to run simultaneously on multiple Raspberry Pi nodes
- Enhanced system by creating a feedback loop that would repeatedly take the algorithm from highest scoring node and distribute it to fellow underperforming nodes

**Crazy Taxi Game – The revival of the well-renowned Facebook game**

- Developed a racing game in Java where player objective is to continually drive along a road
- Player should use arrow keys to control movement of car object and avoid hitting obstacles such as trees