

Moushume K. Hai

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Education	Boston University Master of Science, Software Development	Graduation: Aug 2022
	Kean University Bachelor of Science, Computer Science	Graduation: May 2020
Technical Skills	<p>Programming Languages: Java, Python, C++.</p> <p>Scripting Languages: Shell, Bash.</p> <p>Developmental Tools: Eclipse, ClearQuest, ClearCase Project Explorer, xterm, Putty, Google Test, GNU Project Debugger (gdb).</p> <p>Databases: MySQL.</p> <p>Platforms and Frameworks: Windows, Linux, Ubuntu, CentOS.</p>	
Work Experience	L3Harris Technologies Senior Software Engineer	Clifton, NJ January 2022 – Present
	<ul style="list-style-type: none">Space and Airborne Systems	
Projects	Lockheed Martin Corporation Associate Software Engineer, AMES	Moorestown, NJ November 2020 - Present
	<ul style="list-style-type: none">Collaborated with cross-functional development team members to analyze potential system solutions based on evolving client requirements.Worked closely with other development teams and infrastructure specialists to deliver high-availability C++ solutions for mission-critical applications.Debugged C++ legacy code and located root causes of the problems using gdb and reviewed configuration files and logs.Collaborated with developers and product owners to stay current on product features and intended functionality.Developed flowcharts and diagrams to describe and layout logical operational steps using pseudocode.Identified and resolved problems through research and analysis.	
Projects	Kean University Undergraduate Researcher, Digital Image Processing	Union, NJ June 2020 – August 2020
	<ul style="list-style-type: none">Collected images from using photographic devices and an Arduino based Lidar-Lite scanner.Applied algorithms using Python Imaging Library (PIL), OpenCV, and Sci-kit packages for image enhancements using the acquired images via image sensors.Used MATLAB to create Histograms and show Noise Reduction using C++.Analyzed the original images with the processed images using segmentation and showing intermediate results by changing the intermediate floating-point values between 1.0 and 45.0 to show differentiation.	
Projects	Kean University Undergraduate Researcher, Investigation of Deep Learning for Intrusion Detection	Union, NJ January 2020 – May 2020
	<ul style="list-style-type: none">Assisted with developing long short-term memory (LSTM) networks in Python, a scripting language using Keras to address a time-series prediction problem.Created model representations using Matplotlib in Jupyter to show and detect malicious inconsistencies through validating the predicted sequences and the actual sequences with deep learning approaches.Achieved 93.5% accuracy in detecting malicious deviations in sequenced data versus the real data by converting source code file formats and increasing the length of time for a more substantial number of packet transmissions.	
Projects	Kean University Undergraduate Researcher, Digital Image Processing	Union, NJ June 2020 – August 2020
	<ul style="list-style-type: none">Worked with a DJI Mavic Pro to collect aerial photos/videos to gather real-time flight-related data – such as GPS coordinates, temperature, pressure, humidity, altitude, speed, and velocity.Developed an automated flightpath leveraging JavaScript and DJI GO APP for the drone to record real-time data when traveling to different locations.Developed automation solutions leveraging shell and JavaScript to increase operational efficiency.Imported the data into an excel sheet and converted it to a .CSV extension.Created a local database using MySQL workbench and imported the .CSV file for analysis of the GPS coordinates.	