

<p align="center">Ahmed Taha (Taaha) Patent Examiner Machine Learning & Cybersecurity Specialist Washington, DC (408) 439-9141 TahaAhmed0709@gmail.com AhmedTaha.io linkedin.com/in/ahmedtaha-/ github.com/ahmedtaha100</p>	
Education	
Columbia University, Fu Foundation School of Engineering M.S. Computer Science (Machine Learning) <i>January 2026 – December 2026</i> <i>Thesis:</i> (Pending advisor and topic related to Machine Learning in Cybersecurity) <i>Coursework:</i> Machine Learning Advanced Machine Learning	
Johns Hopkins Whiting School of Engineering M.S. Cyber Security (<i>GPA: 3.85</i>) <i>August 2024 – December 2025</i> <i>Coursework:</i> Quantum Computation Generative AI for Cybersecurity Generative AI and Synthetic Threats Intro to Ethical Hacking Foundations of Information Assurance Web Security Intrusion Detection Information Assurance Analysis Cryptology Foundations of Algorithms <i>Extracurriculars:</i> Pickleball Club & Tennis Club	
California State University, Sacramento B.S. Computer Science (<i>GPA: 3.45</i>) <i>Extracurriculars:</i> Wrestling Sports Club	
Professional Experience	
GS-9 Patent Examiner (AU 2613: Computer Graphics) USPTO <i>January 2025 – Present</i> <ul style="list-style-type: none"> Interpret and analyze claims, conduct prior-art searches, issue Office Actions compliant with the MPEP, hold Examiner interviews, aid applicants in overcoming rejections, averaging 104% production Proficiency in handling 35 U.S.C. § 101 rejections in the software space 	
Machine Learning and Cyber Security Research Student Johns Hopkins <i>September 2024 – Present</i> <ul style="list-style-type: none"> Conducted a Machine-Learning literature-review research paper for Professor Tom McGuire zenodo.org/records/15694329 	
Founder, Software Engineer District Hut LLC (DistrictHut.com) <i>June 2020 – January 2025</i> <ul style="list-style-type: none"> Led full-stack software and machine-learning projects, generating well over seven-figure revenue Built web-based patient-management, auto-dealer, and restaurant apps that streamlined daily operations Managed client servers, ran PPC/SMM/SEO campaigns, and automated workflows to boost efficiency Applied for and registered trademark (US Registration Number: 6560892) corresponding to company slogan 	
Project Highlights	
Machine Learning-Based Network Intrusion Detection System <ul style="list-style-type: none"> Developed Random Forest classifier (500 trees, max depth 20) achieving 89% accuracy on multi-class attack classification (DoS, Probe, R2L, U2R) with 11% false positive rate on NSL-KDD dataset (125,973 samples) Engineered 41 features from network flows including byte count statistics, TCP flag distributions, service port patterns, and time-window based features (1-second and 10-second intervals) Applied PCA retaining 95% variance to reduce dimensionality from 41 to 25 features, improving training time by 40% while maintaining model performance within 1% accuracy Built proof-of-concept Flask dashboard with real-time visualization using Plotly, processing 50-100 connections/second with batch prediction and Redis caching for feature computation 	
Machine Learning Malware Classification System <ul style="list-style-type: none"> Trained 5-layer CNN (3 conv + 2 dense) on malware-as-images approach achieving 91% accuracy across 9 families (Trojan, Worm, Backdoor, Downloader, Spyware, Adware, Dropper, Virus, Rogue) using 10K PE file samples Converted PE executables to 256x256 grayscale images by interpreting raw bytes as pixel intensities, revealing visual patterns unique to each malware family's code structure Extracted 100+ features including top opcode 3-grams and Windows API call sequences using static analysis with pefile library, improving Random Forest baseline from 76% to 85% accuracy Implemented weighted ensemble voting (0.6 CNN, 0.4 RF) combining image-based and feature-based approaches, achieving 88% accuracy 	
Additional Courses	
<ul style="list-style-type: none"> Practicing Law Institute (PLI) USPTO Patent Bar <i>Exam Scheduled for October 2025</i> Patent Fundamentals Bootcamp: An Introduction to Patent Drafting, Prosecution, and Litigation The Harrity Academy Patent Drafting Course <i>April 2025 – December 2025</i> Finnegan IP University <i>February – March 2025</i> 	
Skills	
<ul style="list-style-type: none"> Software Development: Python, Java, C#, R, Spring Boot, Node.js, Angular.js, Express.js, MySQL, MongoDB, AWS Algorithms and Frameworks: Linear Regression, Logistic Regression, Decision Trees, Random Forests, Support Vector Machines (SVM), K-Nearest Neighbors, and Ensemble Methods, TensorFlow, Pytorch, Scikit-Learn, Keras 	
Volunteering	
Web Developer and Spiritual Care Volunteer Anees <i>August 2021 – Present</i> <ul style="list-style-type: none"> Volunteered by developing and managing the organization’s website and providing spiritual and emotional care to 25 underserved patients. For more information, check out myAnees.org. 	