

KIANA KIASHEMSHAKI		Portfolio Link
Sacramento, California		
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Education		
Bowling Green State University (BGSU) , Master of Computer Science, Cyber Security GPA 3.8 Coursework: Design and Analysis of Algorithms, Visualization, Data Science programming, AI for Software Engineering, Computer and Mobile Forensics, Network Security and Forensics, Computer Systems Security, Secure Software Engineering. Network Architecture & Applications (TA), Parallel Computing (TA), Operating Systems (TA).		Aug 2023- May 2025
Azad Tehran University (IAU) , bachelor's in software engineering, GPA 4.4 Awarded Best Graduate Teaching Assistant (Spring 2018)		Sep 2015- Apr 2019
Experience		
Graduate Teaching Assistant, Bowling Green State University		Aug 2023- May 2025
<ul style="list-style-type: none">Facilitate study sessions and labs for undergraduate students in "Operating Systems" and " Network Architecture & Applications ".Aide and grader for assignments and quizzes on Linux and C++ Programming.		
Software Engineer, Green Host		Jun 2021- Jul 2022
<ul style="list-style-type: none">Developed and maintained user interface components using HTML, CSS, JavaScript, and React to enhance dashboard functionality.Designed and integrated backend APIs with Node.js and Express.js for efficient data handling and processing.Managed and optimized relational databases, improving performance and scalability.Collaborated with the support team to resolve bugs, improve user experience, and contributed to deployment workflows using Git and CI/CD tools.		
IT Support, Green Host		Jan 2020- Jun 2021
<ul style="list-style-type: none">Manage and maintain IT infrastructure, including servers, networks, and computer systems, ensuring optimal performance and security.Monitor and troubleshoot network performance, resolving connectivity issues and optimizing network reliability.		
Academic projects		
Piqniq – Emergency Support for Panic Attacks (2nd Place Winner at BGSU ACM Hackathon 2025)		
<ul style="list-style-type: none">Designed and developed a mobile application to assist users during panic attacks through a one-tap alert system.Enabled real-time location sharing and emergency contact notifications through a calming, intuitive interface.Integrated a virtual assistant and guided breathing feature to comfort users while help is on the way.Skills: TypeScript, JavaScript, CSS, HTML, Google Maps API.		
Comprehensive Analysis of Factors Affecting Mathematics Learning in Higher Education		
<ul style="list-style-type: none">Conducted a study analyzing factors influencing student performance in higher education mathematics.Performed Exploratory Data Analysis (EDA) to identify patterns and trends in student responses.Applied statistical testing to uncover differences in performance.Built machine learning classification models for predictive insights and clustering techniques for grouping similar behaviors.Skills: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Statistical Analysis, Machine Learning		
Developing Hands-On Modules on Digital Forensics for Future Students		
<ul style="list-style-type: none">Designed practical educational modules on digital forensics investigations for beginner students.Topics covered include hard disk forensics, memory forensics, and Android phone forensics.Aimed to make digital forensics concepts accessible and engaging.Skills: CTF Challenges, Autopsy, Kali Linux, FTK Imager, Volatility, Digital Forensics, Educational Module Development		
Water and Soil Analysis Visualization		
<ul style="list-style-type: none">Created interactive visualizations for field data related to water and soil behavior.Aided in exploring scientific experiments using dynamic and visually appealing interfaces.Skills: HTML, CSS, JavaScript, D3.js, Bootstrap, Data Visualization, Web Development		
Face Detection		
<ul style="list-style-type: none">Built a web application using Python and Flask for face detection in uploaded images.Implemented the MTCNN (Multi-Task Cascaded Convolutional Neural Network) algorithm for accurate face recognition.Enhanced user experience with a clean interface for image upload and detection.Skills: Python, Flask, OpenCV, MTCNN, Web Application Development, Computer Vision.		
Skills		
Front-end: HTML/XML, CSS, Java Script, Bootstrap, React.js, WordPress		
Back-end: Node.js, Express.js, REST APIs design		
Database Management: SQL (MariaDB, MySQL, PostgreSQL), NoSQL (MongoDB)		
Data Tools: Python (Pandas, NumPy, Matplotlib, scikit-learn)		
Cybersecurity: FTK Imager, Autopsy, Magnet Axiom, Wireshark, Nmap, Burp Suite, SQL Map, Metasploit, Nessus, Kali Linux		
Tools & Platforms: Docker, AWS (EC2, S3, RDS), Git		
Publications		
Comparing LNK File and Jump List Artifacts on Windows 11 with those on Windows 10		under preparation
Certificate		
Full Stack Developer , Certified by Boot Camp Udemy.		
Cloud Computing (AWS) , Certified by Udemy.		
Ethical Hacking , Certified by Udemy.		
Technical Support , Certified by Google in Coursera.		