KIANA KIASHEMSHAKI

Sacramento, California [Portfolio Link](https://falconbgsu-my.sharepoint.com/:b:/g/personal/kkiana_bgsu_edu/EYTUyxvmYYdGn2uqJAfzS4UBo4D1kpVsaoiYox3ucxupgQ?e=kqgDAg)

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# Education

**Bowling Green State University (BGSU),** Master of Computer Science, Cyber Security | GPA **3.8** **Aug 2023- May 2025**

Coursework: Design and Analysis of Algorithms, Visualization, Data Science programming, AI Techniques (ML, DL, NLP),

Computer and Mobile Forensics, Network Security and Forensics, Computer Systems Security, Secure Software Engineering.

Network Architecture & Applications **(TA),** Parallel Computing **(TA)**, Operating Systems **(TA).**

**Azad Tehran University (IAU),** bachelor’s in software engineering, GPA **4.4 Sep 2015- Apr 2019**

Awarded Best Graduate Teaching Assistant (Spring 2018)

# Experience

## Graduate Teaching Assistant, Bowling Green State University Aug 2023- May 2025

## • 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.

## Web Developer, Green Host Jun 2021- Jul 2022

## • Design, develop, and maintain web applications using HTML, CSS, JavaScript, and frameworks such as React.

## • Optimize website performance through code and resource optimization, including image compression and caching strategies.

## • Develop and integrate APIs to connect the front-end with back-end services.

## IT Support, Green Host Jan 2020- Jun 2021

## • 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

**Comprehensive Analysis of Factors Affecting Mathematics Learning in Higher Education**

• 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**

• 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**

• 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

**South America Country’s Analysis**

• Developed data visualizations for datasets representing 12 South American countries.

• Helped in the exploration and analysis of regional data through dynamic charts and maps.

• **Skills**: D3.js, Bootstrap, JavaScript, Data Analysis, Data Visualization.

**Face Detection**

• 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

Windows 11 Jump List and Link File Artifacts - Saved, Copied and Moved  **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.