KIANA KIASHEMSHAKI
Sacramento, California

Portfolio Link

Tell: (415)-696-0546   Email: kkiana@bgsu.edu   Linkedin: https://www.linkedin.com/in/kianakiashemshaki   Website: Kiana-kia.com

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

Piqniq – Emergency Support for Panic Attacks *(2nd Place Winner at BGSU ACM Hackathon 2025)*

- 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

- 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

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.