Nikan Kadkhodazadeh

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EDUCATION

University of Southern Maine, Portland, ME   May 2026

Bachelor of Science in Computer Science.

PROFESSIONAL EXPERIENCE

Kelson Marine, United States, ME   Summer 2024
Intern
- Developed an interactive VR experience of a kelp farm using unity and the XR toolkit
- Designed UI elements for a more interactive user experience
- Developed scripted events and animations to enhance storytelling
- Utilized C# scripting to script the experience.

Cybersecurity Ambassador Program, United States, ME   Aug 2023-Aug 2024
Silver Ambassador
- Conducted an informative and engaging presentation on social media safety at Scarborough Library.
- Addressed the audience with essential tips and guidelines, emphasizing the importance of online privacy and security.
- Utilized interactive tools and real-life examples to make the session relatable and easy to understand for attendees.
- Encouraged active participation, inviting questions and discussions to create an open learning environment.

EXAM MATE RESOURCES SDN. BHD., Kuala Lumpur, Malaysia   May 2022-May 2023
Web Developer
- Designed and developed responsive and user-friendly websites using HTML, CSS, JavaScript, and other web technologies.
- Implemented and customized content management systems (CMS) like WordPress or Joomla to enable clients to manage their website content efficiently.
- Collaborated with designers, UX/UI teams, and stakeholders to translate design mockups and wireframes into functional web pages.
- Conducted thorough testing and debugging of websites to ensure cross-browser compatibility and optimal performance.

EDUCATION HOUSE, Kuala Lumpur, Malaysia   September 2020-August 2021

Mathematics, Computer Science, Physics, and Statistics tutor
- Planned and prepared lesson plans, instructional materials, and learning activities based on the curriculum and students' needs.
- Delivered engaging and interactive classroom instruction, effectively communicating complex concepts in a clear and understandable manner.
- Adapted teaching methods and strategies to accommodate students with diverse learning styles and abilities.
- Provided individualized attention and support to students, addressing their academic challenges and encouraging their progress which resulted in most of my students achieving their desired grades.

WMPG 90.9FM , United States, ME   Feb 2024-Aug 2024

- Hosted and curated engaging playlists for radio shows, captivating audiences with a diverse selection of music genres
- Fostered an interactive and inclusive environment, encouraging listener participation through calls, messages, and social media interactions
- Demonstrated strong communication skills both on and off the air, engaging with listeners, guests, and colleagues to ensure a memorable and impactful radio experience

ACADEMIC HIGHLIGHTS
Projects

- **Pintos Operating System - Threads and User Programs**

  Implemented core components of an educational OS in C, including thread scheduling, synchronization primitives, and user program execution. Gained experience with low-level systems programming, process management, and debugging kernel code.

- **Recursive Descent Parser**

  Developed a syntax analyzer in Java that parses and evaluates EBNF expressions using a top-down recursive descent approach. Implemented tokenization, grammar handling, and error detection to validate expression syntax.

- **Search Engine using BM25 Ranking Model**

  Developed a search engine in Java that ranks song lyrics using the Okapi BM25 information retrieval model. Implemented term frequency, inverse document frequency, and average document length computations. Designed efficient algorithms for indexing, query processing, and top-K retrieval.