

Sepehr Akbari

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EDUCATION

Lake Forest College <i>B.A. Computer Science & Data Science, Minor in Mathematics</i>	Aug 2023 - May 2026 (<i>expected</i>) GPA: 4.0
UWC Mahindra College <i>International Baccalaureate Diploma Programme (IBDP)</i>	Aug 2021 - May 2023 GPA: 3.8

WORK EXPERIENCE

IT Helpdesk Specialist <i>Lake Forest College</i> <ul style="list-style-type: none">Collaborate with IT team to troubleshoot and resolve technical issues for students and faculty.Communicate effectively with non-technical users, simplifying solutions and empowering self-resolution.Support colleagues by sharing knowledge and assisting with complex technical challenges.	Jan 2025 – Present <i>Lake Forest, IL</i>
Front-End Developer Intern <i>TenacityAI</i> <ul style="list-style-type: none">Developed and maintained the mobile app front-end using React Native.Managed user database, authentication, and integrating back-end components.Implemented OpenAI's GPT API, developing the app's ChatBot.Collaborated with the product team to implement user-focused features and a seamless user experience.	May 2024 – Aug 2024 <i>Chicago, IL</i>
Intern Programmer <i>Elite Engineering Solutions</i> <ul style="list-style-type: none">Collaborated on the database migration project, integrating robust data structures.Developed personalized employee data profiles, replacing a basic Google login system.Enhanced data security and accessibility, through smart development decisions, and product choices.	May 2023 – Aug 2023 <i>Tehran, Iran</i>

ACADEMIC EXPERIENCE & RESEARCH

Teaching Assistant (TA) <i>Functional Programming, Computational Math</i> <ul style="list-style-type: none">Conducting lab sessions and assisting with coding projects, and math concepts.Grading assignments and providing personalized guidance on course material.Collaborated with professors to design assignments and labs.	Dec 2023 – Present
Evaluating Quantum Randomness <i>Research Paper</i> <ul style="list-style-type: none">Collaborating with faculty to develop a Quantum Random Number Generator (QRNG) and analyze its properties.Performing statistical tests to evaluate randomness and identify biases in quantum-generated numbers.Using feature vectors and SVM to classify quantum randomness, gaining insights into errors and predictability.	Nov 2024 – Present
Tensor Energy Minimization <i>Research Paper</i> <ul style="list-style-type: none">Exploring tensor-based entangled quantum systems with virtual and real particles.Collaborating with faculty to compute the lowest energy state using a Hermitian operator and BFS.Analyzing applications of energy-minimized Matrix Product States (MPS) in the future.	Jan 2025 – Present

TECHNICAL SKILLS

Languages: Python, Java, C, R, HTML, CSS, JS, PHP, SQL, Julia, Bash
Programming & Development: Web Development, App Development, Database Management, GUI Development, Frontend Development, APIs, UX/UI Design
Machine Learning & AI: ML (SVM, Random Forest, Decision Trees, Neural Networks, GNN, Regressions, PCA, Clustering), Computer Vision, Gradient Optimization, Data Interpolation
Mathematics & Data Science: Mathematical Modeling, Data Visualization
Systems & Tools: Linux Kernel, Version Control (Git), IBM Qiskit, Data Structures & Algorithms, Agile Development, Testing