Adam O. Hamou

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EDUCATION

University of Nevada, Las Vegas — Expected May 2025

Bachelor of Arts: Computer Science; Minor in Physics — GPA: 3.96

Relevant Coursework: Data Analysis, Data Structures & Algorithms, Object-Oriented Programming, Machine Learning

TECHNICAL SKILLS

Languages: Advanced in C, C++, mySQL, Python; **Proficient** in Java, C#, Javascript, HTML/CSS
Frameworks: React Native, React, Flask, PyTorch, TensorFlow
Developer Tools: VSCode, PyCharm, CLion, IntelliJ IDEA Microsoft Excel, LaTex, Jupyter
Operating System: Windows, Linux, Mac OS
Awards/Achievements: Competed in the SoCal ICPC Regionals(2024-2025)

PROJECTS EXPERIENCE

Portfolio Website — Aug 2023 - Dec 2023

Front-end Developer

- Created a personal portfolio website using HTML, and CSS to effectively showcase my skills, progress, and achievements.
- Rigorously tested and debugged various features, improving user experience by 85%. This included optimizing user interface options and enhancing overall website navigation.
- Integrated essential interactive components with JavaScript, including a 'Contact Me' section for easy communication and a 'Download Resume' option increasing user engagement by 60%.

BlackJack Card Count Sim — Dec 2023 - Current

FullStack Developer

- Orchestrated the development of a user-friendly website using React.js as part of a robust technology stack.
- Implemented Flask API authentication for seamless and secure user login and registration, prioritizing data security and privacy.
- Utilized Python to create a blackjack simulator with integrated count simulator to enhance user experience by 50%
- Employed MySQL to save user data and progress, increasing user retention by 40%.

PROFESSIONAL EXPERIENCE

FreeLance Tutor — Las Vegas, NV

Physics, Mathematics, C++ — Jan 2020 - Current

- Provided academic support to students enrolled in entry-level and intermediate college courses, resulting in an estimated overall improvement of 30%.
- Tutorted returning students in C++ programming, covering essential concepts including classes, pointers, recursion, templates, and data structures such as linked lists and hashmaps.
- Offered comprehensive assistance by delivering detailed feedback, guidance, and supplementary practice problems in C++, calculus, and modern physics.

Modern Physics Lab — Las Vegas, NV

Python, Jupyter, LaTex — Aug 2022 – Dec 2022

- Investigated the current-voltage characteristics of PN junctions, providing insights into semiconductor behavior.
- Explored the determination of the electron-to-mass ratio, contributing to the understanding of particle physics.
- Conducted research on operational amplifier circuits, enhancing knowledge of analog electronics.
- Explored the principles and applications of spectrometry, advancing knowledge in the field of optical instrumentation.

ACTIVITIES

Involvement: Muslim Student Association(MSA), Association for Computing machinery(ACM)
Bilingual: Native English, Proficient in Arabic