Daniel Chamoun

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EDUCATION

- **University of Illinois** — Champaign, IL
  Bachelor of Science Major in Computer Engineering; Minor in East Language and Culture — *Aug. 2020 – May. 2024*

EXPERIENCE

- **Beckman Institute** — Urbana, IL
  IT Support — *Jun 2022 - Present*
  - **Diagnostics**: Troubleshoot and solve technical problems for researchers within the Beckman Institute including software, hardware, and networking using critical thinking tasks.

- **Illinois Space Tech Academy** — Champaign, IL
  Web Developer — *Jun 2022 - Aug 2022*
  - **Client-Focused**: Used HTML, CSS, and PHP to create an educational course for those interested in NASA's Artemis project.
  - **JavaScript**: Developed interactive quizzes to provide users of the program with instant feedback.

- **Code Ninjas** — Libertyville, IL
  Coding Instructor — *Sep 2018 - Jul 2019*
  - **Coding Fundamentals**: Taught ages 7-14 basic coding and robotics fundamentals. Strong emphasis on critical thinking, problem solving, and teamwork. Languages taught included Javascript, HTML, CSS, Lua, and Python.

PROJECTS

- **JargonJolt**: ESP32 based portable flashcard language learning device with Anki integration.
- **Nixie Tube Clock**: Used C and assembly with PIC microprocessors in order to display the current time in a HH:MM:SS format.
- **FPGA Rhythm Game**: Used SystemVerilog to create a rhythm game based project which utilizes I2C and I2S audio configurations.
- **Mosaic Generator from PNGs**: Used data structures to generate a specified PNG from a selection of other specified PNG's.
- **Sound Controlled LED Module**: Used Arduino and MSGEQ7 graphic equalizers to produce festive lights in time with the music inputted through audio in. Colors change according to the frequencies of the audio data.

TECHNICAL SKILLS

- **Languages**: C, C++, Python, SQL, Java, Javascript, HTML, CSS, Node.js, Lua
- **Software Applications**: Quartus, Cadence, KiCad

RELEVANT COURSEWORK

- **Relevant Courses**: Computer Security, Applied Parallel Programming, Artificial Intelligence, Analog IC Design, Digital Systems Laboratory, Digital Signal Processing, Senior Design Project Laboratory

RSO'S

- **Illini Solar Car** — Urbana, IL
  Electrical Team — *Aug 2020 - Aug 2021*
  - **Battery Subsystem**: Worked to improve the new battery subsystem for Illini Solar Car's 'Brizo' using KiCad and other in-person testing methods.

- **DDRIllini** — Urbana, IL
  Club President — *Aug 2023 - Present*
  - **Rumble in the Prairie**: Hosted one of the longest running tournament series in the dance game community. For over a decade, DDRIllini has brought together players for Dance Dance Revolution tournaments from the UK, Singapore, South Korea, Japan, and more.