Asher M. Rosen

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EDUCATION

University of Tulsa | Tulsa, OK   **Aug 2022 – May 2026**
Three Majors Computer Science, Cybersecurity, Mathematics - ***3.4 GPA, CS GPA: 3.8***
Relevant Courses: Computer Networks, Software Engineering, Computer Assembler and Architecture, Discrete Mathematics, Data Structures, Computer Algorithms, and Programming Practicum

SKILLS

Programming: C, C++, Java, Python, Javascript, CSS, Shell Scripting, SQL, MIPS
Frameworks/Tools: Git, VScode, SSH, Cmake, gcc, React, Raspberry Pi, ESP32, ESP8266

EXPERIENCE

Army Corps of Engineers | Tulsa   **4/24 - Present**
Security Researcher
- Worked full time as a Security Researcher on an Army Corps of Engineers grant at the University of Tulsa. Researched wireless traffic capture, analysis, and fingerprinting. Developed an affordable tool for capturing full Bluetooth connections and fingerprint devices involved. Actively writing and publishing a paper as a primary contributor.

Sewell Automotive | Dallas   **11/23 - 1/24**
IS Winter Intern
- Learned how Sewell IS completed support tickets for hardware and software During an office move, performed network port mapping, switch and patch panel hookups, and installation of hardware components within the new office space.

Sewell Automotive | Dallas   **5/22-8/22, 5/23-8/23**
Counterman and Parts Inventory Specialist
- Learned inventory and order system to quote parts for repair orders and wholesale part sales. Ordered parts needed for shop repairs and wholesale orders– Troubleshot access control software. Operate forklift to unload trucks and distribute large automotive components.

PROJECTS

SSD1306 Driver and API https://github.com/AMR1234567891011/SSD1306-Driver-RpiZero-2W
- Basic character driver for the ssd1306 display. Basic functionality for displaying text. Used in my other project for displaying sensor information. A test application is included that shows how to use the API for the driver.

Instrument Tuner https://github.com/AMR1234567891011/AudioProject
- Use IoT devices to act as instrument tuners for a music group. Each IoT tuner sends tuning and timing information to the server which displays which players are most in tune and in time.

Portfolio Project https://asher-rosen.us/

ACTIVITIES

Association of Computing Machinery University of Tulsa   **8/22-Present**
Vice President & Treasurer
- Help plan events and ensure proper funding channels are used. A Notable event is the RISK challenge when ACM programmed the board game risk with an API and had new computer science students compete for who had the best RISK algorithm.

ICPC (Intercollegiate Programming Competition)   **1/23-Present**
Competitor
- Participate and attend ICPC competitions and practices for the TU ICPC club.

Boy Scouts
Eagle Scout with gold and bronze palms, and a brotherhood member of the Order of the Arrow (OA)