# Lewin Elep

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## EDUCATION

**B.S. Computer Science, Minor in Business** May 2026
Arizona State University, Ira A Fulton Schools of Engineering & W.P Carey School of Business - Tempe, AZ 3.30 GPA

**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Software Engineering, Distributed Systems, Information Assurance, Computer Organization & Assembly, Theoretical Comp. Sci

## TECHNICAL SKILLS

**Programming Languages**: Python 3.13, C++17, Java, Javascript (Node.js), HTML5/CSS3
**Frameworks & Tools**: Git, GitHub, Flask, Arduino, VS Code
**Platforms:** Windows, MacOS, Linux/Unix

## CERTIFICATIONS

**AWS** Certified Cloud Practitioner (Expected June 2025)

## RELEVANT EXPERIENCE

**Sun Devil Satellite Lab, AZ: Software Team** Jan 2024 – Present

- Sole Developer on Helmholtz cage sub-project to test magnetometer and IMU accuracy under controlled magnetic fields
- Programmed with Arduino using Adafruit libraries to integrate LIS3MDL and ICM20948 sensors
- Exposure to LoRa-based telemetry protocols used in satellite data transmission

**Tutor.com: C++ Tutor** July 2024 – Sept 2024

- Provided one-on-one tutoring to students in C++ fundamentals and object-oriented programming
- Helped students debug code, prep for exams, and solve algorithmic challenges
- Tailored support to a range of academic levels and project types

## PROJECTS

**Login Abuse Detection and Defense Tool, *Personal Project*** Summer 2025

- Developed and deployed a Flask-based tool to detect and mitigate login-based cyberattacks in real-time
- Identifies brute force, credential stuffing, and geo-hopping attacks using IP and user patterns, fail streaks, and location aware heuristics
- Features a live web dashboard for real-time insight into login attempts and flagged anomalies

**Node-JS Chatbot, *Personal Project*** Fall 2024

- Developed a ChatGPT-powered chatbot using Node.js and Express.js with real-time browser interaction
- Integrated OpenAI's GPT-3.5-turbo API using secure environment variable handling (.env)
- Implemented backend logic for prompt handling, API requests, and asynchronous response handling per session

**Custom Programming Language Interpreter, *Class Project*** Fall 2024

- Developed a full interpreter in C++ for a custom language with variables, arithmetic, conditionals, loops (FOR, WHILE), and SWITCH-case logic
- Implemented a recursive descent parser and linked control flow graph using dynamically allocated InstructionNode structures
- Simulated memory, input/output streams, and execution flow, mimicking a real runtime engine
- Handled instruction sequencing, conditional jumps, nested statements, and error-resilient parsing logic

## ACTIVITIES & EXTRACURRICULARS

**ASU Venture Devils Finalist** Dec 2022 – April 2023
**Robotics Software Team** Sept 2018 – May 2022
**Tacoma Food Bank** Sept 2018 – May 2022
**Nativity House** Sept 2018 – May 2022