

# Seth Klupka

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## Objective

A driven and eager junior programmer seeking a position where strong analytical and problem-solving skills, coupled with a solid foundation in computer science, can be applied to contribute to challenging, innovative projects.

## Skills

- C, CSS, HTML, Java, JavaScript, PHP, Python
- managed databases with MySQL, phpMyAdmin
- experience with Git version control
- built React web projects with Vite
- assembled/programmed embedded systems
- experience with Figma and Photoshop
- ability to write modular and readable code
- high attention to detail and solution-oriented
- proven reliable and dependable
- excellent communication skills
- ability to work independently or cooperatively
- ability to adapt quickly to new technologies

## Work History

- Undergraduate Researcher** | University of Texas at San Antonio | May 2022 - Apr 2023
- tasked with developing a sustainable low-maintenance A.I. traffic crash risk notification system
  - collaborated with a professor, assistant professor, mentor, and six students
  - responsible as lead for hardware assembly, programming (C++, Python), and dataflow
  - ensured group met critical timelines and work results were articulated clearly both written and orally
  - wrote detailed report outlining hardware/software developed, process, and methodology
  - successfully developed a safety notification system and presented work at multiple conferences
- Cybersecurity Auditor** | University of Texas at San Antonio | Nov 2021 - Dec 2021
- responsible as lead for cybersecurity assessment of Canyon Lake Resource & Recreation Center (CRRC)
  - analyzed risk identification, hardware/software protection, threat detection, recoverability, and responsiveness
  - ensured group met critical timelines and work results were articulated clearly both written and orally
  - wrote detailed report for CRRC outlining critical findings with recommendations (including methodology)
  - end result — identified critical areas of improvement to combat threats and secure cyber assets

## Projects

- Weather** | <https://klupka.github.io/WeatherWebApp/> | November 2023
- **about:** single-page React web application to provide users with real-time weather information using three APIs
  - **features:** automatic weather retrieval from user's location, search functionality, toggleable temperature scales
  - **objective:** demonstrate expertise in API integration, well-structured React code, and strong UI design principles

## Education

- Bachelor of Science** | Computer Science, Software Engineering | August 2018 - December 2022
- GPA: 3.14
  - Recipient of Honor Roll, President's List, and Dean's List
  - NSF Research Experience member and scientific research presenter (ICIBM 2022)
  - McNair Scholars Program member and scientific research presenter
  - Relevant coursework — Advanced Software Engineering, Software Engineering, Web Technologies, Database Systems, User Interfaces, Secure Software Dev & Analysis, Embedded Systems, Artificial Intelligence