

# Sule Tekin

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## EDUCATION

**The University of Texas at Austin**, Austin, TX

August 2020 - August 2023

*Bachelor of Science, Computer Science*

Graduate GPA: 3.62

Minor in Arabic

Relevant Coursework:

Data Structures, Computer Architecture, Operating Systems, Data Mining/Machine Learning, Object-Oriented Programming, Web Applications, Algorithms and Complexity, Wireless Networks, iOS Mobile Application Development, Software Engineering

## EXPERIENCE

**Private Tutor**, Pflugerville, TX

March 2019 – March 2020

- Experienced in elementary school tutoring, specializing. Conducted personalized sessions to support homework, identify weaknesses, and used creative methods to enhance learning outcomes.

## PROJECTS

- Evil Hangman (Java)**
  - This unique rendition of the classic Hangman game introduces a thrilling twist. Rather than selecting a word upfront, the Java program employs a strategic approach to delay the word selection process. As the user guesses letters, the program dynamically narrows down the active word list, containing potential choices that remain in contention. It cleverly withholds revealing the secret word until absolutely necessary, continuously maintaining a comprehensive inventory of possible words based on user input.
- Memory Management (C)**
  - Developed a dynamic storage allocator in C, emulating the behavior of malloc() and free() functions. Designed and implemented an efficient and reliable allocator, ensuring correctness and speed in memory management.
- Bomb Lab (C)**
  - Developed a C-based cybersecurity program that safeguards against detonation of a symbolic bomb. By meticulously analyzing and validating register values, strategically inputting specific inputs effectively neutralizes the threat.
- Pintos (C)**
  - Contributed to the development of Pintos, a straightforward operating system software created by Stanford professors. Implemented various C programs, including thread emulation, user program execution, and file system creation. Constructed the essential framework for enabling the smooth operation of a basic operating system.
- [Travel Website](#) (HTML, JavaScript, ReactJS, Bootstrap, AWS, Python)**
  - Developed an immersive travel website hosted on AWS, leveraging RESTful APIs designed through Postman. Implemented a robust backend server using Python, Flask, and SQLAlchemy, with MySQL as the database. For the frontend server, harnessed the power of JavaScript and React as the GUI framework. Captured data from multiple sources through RESTful APIs.
- [Strive Mobile App](#) (ReactJS)**
  - Engineered a dynamic React-based mobile application, Strive, catering to the needs of a non-profit organization in El Paso. The app not only facilitates seamless access to crucial information and services but also fosters a sense of personal growth by empowering members to track and enhance their progress in organization-specific challenges.

## SKILLS

**Technologies:** ReactJS, Flask, Visual Studio, Xcode, Firebase, Jinja2, AWS, Linux, Microsoft Office, Git, MATLAB

**Programming Languages:** Java, Python, C++, C, HTML, CSS, JavaScript, Swift, x86 assembly