

# Kellen Parker

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## PROJECTS

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### Mirror Squared

Aug. 2021 – Apr. 2022

Team Project - [github.com/Kellenparker/mirror](https://github.com/Kellenparker/mirror)

React.js, Kotlin, Firebase, Google Cloud

Smart mirror software with the purpose of customizability and ease-of-use, complete with a companion mobile app.

- Designed modular desktop software with the capability of handling 7+ API-driven modules at once.
  - Emphasized efficiency and performance as needed to run smoothly on a Raspberry Pi 4 device.
- Designed a feature where the mirror will detect the user's clothes and provide them fitting clothing suggestions.
  - Optimized to run in under 5 seconds despite limited hardware and various concurrent modules.
- Allowed for instant communication between app and mirror and multiple users via a robust Firebase database.

### On the Ropes

Jan. 2022 – Present

Personal Project - [github.com/Kellenparker/ontheroles](https://github.com/Kellenparker/ontheroles)

React.js, Typescript

In-progress boxing management application with much of the simulation complete.

- Features a fully randomized and self-sustaining roster and environment, all stored client-side on the browser.
  - Simulated 500+ years of in-app time without any faults or inaccuracies in the simulation.
- Used TypeScript to help the use and readability of the complicated JavaScript objects used in the application.
- [ontheroles.kellenp.com](https://ontheroles.kellenp.com)

### Bare Bones Battle Simulator

2021

Personal Project - [github.com/Kellenparker/battlesim](https://github.com/Kellenparker/battlesim)

React.js

A minimalist single page web application that simulates user-defined battles.

- Made a point of simulating an accurate 18th century battle, including accurate morale, stages, and reactions.
- Added enough randomness to ensure that no battles are the same, and that outnumbered armies can still win.
- [barebones.kellenp.com](https://barebones.kellenp.com)

## EDUCATION

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### West Texas A&M University

December 2022

BE, Computer Science

Canyon, TX

- 3.67 GPA

## WORK EXPERIENCE

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### BSA Hospital

Sept. 2017 – Present

Anesthesia Tech

Amarillo, TX

- Performed maintenance and upkeep on 20+ anesthesia machines, monitors, and other medical equipment.
  - Ensure all equipment is operating within strict medical standards as needed for patient safety.
- Assist Doctors in sterile procedures such as Central Venous and Arterial line placements in emergent surgeries.
- Maintain an active inventory of over 150 vital medical supplies needed for Anesthesiologists and Surgeons.

## SKILLS

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- **Technical Skills:**
  - **General:** Algorithms, Data Structures, Web Development
  - **Languages:** JavaScript, TypeScript, C++, Python, HTML5, CSS
  - **Libraries & Frameworks:** React.js, Express.js, Next.js
  - **Tools:** Git, VS Code, MS Visual Studio
- **Soft Skills:** Teamwork, Self-management, Communication, Problem Solving