SEAN STANLEY

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EDUCATION

University of Florida , Gainesville, FL   August 2016–May 2021
- B.S. in Computer Science, minor in Electrical Engineering, 3.65 GPA with **Magna Cum Laude** honors
- Coursework includes: Data Structures, Software Engineering, Human-Computer Interaction, UX Design, Computer Networks, Information and Database Systems, Digital Logic, Discrete Structures, and Engineering Research

EXPERIENCE

Software Engineer, **CAE USA**, Tampa, FL   June 2021–Present
- Wore multiple hats as a Developer, Tester, and Product Owner while holding **Top Secret** security clearance
- Led charge to implement **Test-Driven Development**/ ensure that all codebases reached 80% unit test coverage
- Developed bleeding-edge features for use on classified network environments
- Managed cross-team communication to ensure completion of deliverables and sprint goals
- Worked directly with end users to capture feedback and incorporate changes into features

Undergraduate Researcher, **Virtual Experiences Research Group, UF**   December 2020–October 2021
- Built prototype of PPCards, a card-based **augmented reality** learning platform for prototyping electronic circuits, meant to improve upon conventional online tutorials; see the TEI 2021 presentation here
  - Incorporated real-time feedback projected onto the workspace to alert users to mistakes, and provided contextual suggestions to correct errors
  - Paired **OpenCV template matching** with **Python** to facilitate computer vision image recognition
  - Designed and built projected AR interface using **Unity** and custom **3D-printed** parts
  - Used **Open Sound Control** messaging protocol to exchange messages between subsystems
- Headed up second project, blockXR, using tech from PPCards to implement a tangible version of **Google's** Blockly
  - Conducted user studies and presented showpiece at VL/HCC in October 2021; see the paper here

Full-Stack Developer, **Gator Trader React App, UF**   January 2020–May 2020
- Worked with UF faculty to develop a responsive **React** replacement for UF's Textbook Exchange web service. Find codebase on GitHub
  - Aimed to modernize look, increase responsiveness, and reduce loading times by at least 50%
  - Used **Figma** to mock up high-fidelity prototypes of modular React components and capture user feedback
  - Implemented search functionality with paging in a tabular format
  - Handled page routing with **Express** and used **Bootstrap** and **MUI** for styling to create a modern aesthetic
  - Made use of the **React Testing Library** to create unit tests
- Conducted a user study of undergraduate students, finding that surveyed users were 80% more satisfied with new design

PERSONAL PROJECTS

Brewd - A Social Coffee Experience   April 2024–Present
- Designed and developed Brewd, a coffee-rating **Next.js** webapp that helps users discover, rate, and share their coffee experiences, inspired by Letterboxd, Untappd, and Backloggd. Find codebase on GitHub
  - Created interactive prototype using using **Figma**. Utilized **Google's Places API** for location data
  - Designed backend services and database schema using **Postgres** and **Drizzle ORM** to ensure robust data management and NoSQL querying capabilities
  - Utilized **Headless UI**/**Radix UI** for creating accessible, reusable, and keyboard-navigable UI components
  - Resolved style conflicts in reusable components by combining **clsx** and **twMerge**

Roll for Init 5E Tabletop RPG Aide   January 2021–June 2021
- Worked on Open Gaming License-compliant alternative to sites like D&D Beyond. Find codebase on GitHub
  - Designed an application with strong visual identity using Bootstrap and **Sass**
  - Used React with **Redux** for state management, React-Router for front-end routing, Express middleware for API routes, and Mongoose for schema
  - Optimized **REST API** calls to reduce page load times by at least 70%

SKILLS

- **JavaScript**: Next, React, React Context API, Redux, TypeScript, REST APIs, ES6+, ESLint
- **Web**: HTML5, CSS/SCSS, Tailwind CSS, Radix UI, Accessible Design w/ axe DevTools/WCAG 2.1 guidelines, Framer Motion, Selenium WebDriver/Test Automation, Vercel
- **General**: Git, Drizzle ORM, Figma, Python, C++/C#/.NET, Linux, Agile Development, Sprint Management, User Validation Testing, Microsoft Office, Super-Advanced Stack Overflow Navigation