

SEAN STANLEY

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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
 - Managed communication between cross-functional teams to ensure timely completion of deliverables and sprint goals
 - Worked directly with end users to capture feedback and incorporate changes into features
 - Responsible for demoing completed features to multiple user groups and receiving final approval
- Led charge to implement **Test-Driven Development**/ ensure that all codebases reached 80% unit test coverage
 - Created unit tests for .NET API using **xUnit.net** to maintain 80% test coverage per contract requirements
 - Implemented automated cross-browser testing of React application using **Selenium Webdriver**
- Worked within classified network environment to integrate developed solutions into target platform

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](#)
 - Designed and built projected **AR** interface using **Unity** and custom **3D-printed** parts to incorporate real-time feedback, alerting users to mistakes and providing contextual suggestions to correct errors
 - Paired **OpenCV template matching** with **Python** to facilitate computer vision image recognition
 - 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](#)
 - Handled page routing with **Express** and used **Bootstrap** and **MUI** for styling to create a modern aesthetic
 - Made use of the **Mocha** test framework to create test cases
- Conducted a user study of UF 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 **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** with **twMerge**, and combined **ESLint** with **Prettier** for automated linting/formatting

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](#)
 - Used UX principles to design high-fidelity prototype in **Adobe XD**
 - Utilized **React Redux** for state management, React-Router for front-end routing, Express middleware for API routes, and Mongoose for schema
 - Optimized **REST API** calls with caching to reduce page load times on refresh 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, Java, Linux, Agile Development, Sprint Management, User Validation Testing, Microsoft Office, Super-Advanced Stack Overflow Navigation

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