

# Sterling Newsom



## CONTACT

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## SKILLS

- Training sessions
- Flight instruction
- Scenario-based training
- Performance improvement
- Operational management
- Software testing
- Leadership skills
- Full-motion video
- Surveillance missions
- Global collaboration
- Reconnaissance operations
- Liaison duties
- Situational awareness
- Training exercises
- API-based development
- Server-side programming
- Structured approach
- Modular programming
- HTML and CSS
- Recipe website
- User feedback
- Form validation
- Front-end design
- Data integrity

## REFERENCES

Available upon request.

## PROFILE SUMMARY

Experienced UAS Instructor/Supervisor with a demonstrated history of success in leading training and development initiatives in the US Air Force. Skilled in conducting training sessions for new team members on advanced aerial intelligence gathering and dispersal systems, with expertise in the MQ-9 Reaper Unmanned Aerial Vehicle System. Proven ability to develop comprehensive performance improvement plans (PIPs) for trainees requiring additional support, while managing critical operational aspects such as maintenance documentation, technical publications, operator checklists, flight plans, and training schedules. Collaborative team leader with experience in software testing and providing strategic-level leadership to optimize performance and operational readiness. Also, a skilled web developer with proficiency in HTML, CSS, JavaScript, Node.js, and Express.js, with a keen eye for detail and a focus on user experience.

## CORE COMPETENCIES

- Aerial Operations:** Proficient in conducting full-motion video operations, laser range designators, and intelligence gathering for reconnaissance and surveillance missions across multiple combat environments.
- Training and Development:** Skilled in designing and delivering training sessions, developing performance improvement plans, and leading teams to ensure compliance and currency for all team members.
- Operational Management:** Experienced in managing critical operational aspects, such as maintenance documentation, technical publications, operator checklists, flight plans, and training schedules, to optimize performance and operational readiness.
- Situational Awareness:** Highly adaptable and capable of maintaining a high level of situational awareness during all missions, including quickly adapting to changing operational conditions and emerging threats.
- Software Engineering:** Proficient in API-based programming, modular programming, and structured approach to API design for scalability and maintenance. Experienced in developing web-based applications, such as recipe websites and form validation platforms, with features that enhance user engagement and experience.

## WORK EXPERIENCE

**U.S. Air Force – Las Vegas, NV** **2020 – 2023**

*UAS Instructor / Supervisor*

- Conducted successful training sessions for approximately 250 new team members on advanced aerial intelligence gathering and dispersal systems, with over 500 hours of flight instruction time on the MQ-9 Reaper Unmanned Aerial Vehicle System.
- Led a team to design monthly scenario-based training, emphasizing comprehensive tactical maneuvers, to ensure full compliance and currency for all team members.
- Developed comprehensive performance improvement plans (PIPs) for trainees requiring additional support, to maintain 100% currency for upcoming operators.
- Managed critical operational aspects, such as maintenance documentation, technical publications, operator checklists, flight plans, and training schedules.
- Conducted software testing to provide valuable feedback and data to platform engineers for continuous improvement and development.
- Provided strategic-level leadership with streamlined training plans and tactical procedures and processes to optimize performance and operational readiness.

**U.S. Air Force – Las Vegas, NV** **2017 – 2023**

*UAS Operator*

- Conducted full-motion video electro-optical/infrared/low-light camera operations and laser range designators in support of intelligence, surveillance, and reconnaissance missions.
- Collaborated with global partners and military intelligence assets to ensure the safe execution of tactical and support operations for allied ground forces across multiple combat environments.
- Completed 124 sorties and provided over 2,500 hours of reconnaissance, overwatch, and close air support missions.
- Served as a liaison between the flight weapons shop and affiliated teams, disseminating briefs and academic materials on the tactical capabilities and procedures of MQ-9 systems.
- Maintained a high level of situational awareness during all missions and adapted quickly to changing operational conditions and emerging threats.

- Participated in training and readiness exercises to maintain currency in flight operations and to continually improve team performance.



## SOFTWARE ENGINEERING PROJECTS

### Your Favorite Dictionary – GITHUB REPO

- The "Your Favorite Dictionary" project is a web-based application that offers users a randomly generated word and its definition, accompanied by an audio feature for pronunciation assistance.
- The development of this application utilized an API-based approach, with integration of CSS, HTML, and JavaScript for the front-end, and server-side programming using Node.js and Express.js.
- A noteworthy feature of the project is the auto-generation of a new word and definition every 24 hours, ensuring that users have a fresh learning experience each time they visit the website. Lessons learned from the project include the importance of modular programming and a structured approach to API design for scalability and maintenance.

### Good Eatin – GITHUB REPO

- The Good Eatin project is a recipe website that allows users to browse and search for different recipes, as well as view information about each dish and its ingredients.
- For this project, HTML and CSS were used for website design and layout. HTML was used to structure the website's content, while CSS was used for styling and formatting the website's elements.
- One additional feature of the Good Eatin website is the ability for users to leave comments and ratings on individual recipes. This feature provides valuable feedback to both users and recipe creators, helping to improve the overall quality of the website's content. A lesson learned from this project is the importance of organizing website content in a clear and user-friendly manner, as this can greatly enhance the user experience and increase engagement with the website.

### Pod.com – GITHUB REPO

- Pod.com is a website designed to provide users with a platform to fill out forms and have their data validated before submission.
- HTML and CSS were the primary tools used to develop the website's front-end design, while form validation was implemented using JavaScript.
- The form validation feature helps ensure that users submit valid information, which improves the overall accuracy and integrity of the data collected. Lessons learned from the project may include improving the user experience by adding more informative error messages or implementing real-time validation to provide users with feedback as they fill out the form.



## EDUCATION

**California Institute of Arts and Technology** – *AS Software Development, San Diego, CA*

**Expected Graduation - Fall 2023**

- Relevant Coursework:** Object-Oriented Programming with C++, Relational databases and SQL

**Operation Level-Up** – *Advanced Software Engineering Immersive, US Remote*

**2021**

- 18-week software engineering immersive program with over 1000+ hours of coding. Full-
- Stack development with JavaScript, React, Express, PostgreSQL, and MySQL in an Agile environment



## TECHNICAL SKILLS

**Frontend:** *JavaScript, TypeScript, React, Recoil, HTML5, CSS3, Bootstrap, DOM API, UX/UI, SASS, AJAX*

**Backend:** *Node.js, Express, PostgreSQL, RESTful APIs, MongoDB, Relational Databases*

**Testing/Deployment:** *Render, EC2, Circle CI, Docker, Responsive Web Design*

**Developer Tools:** *Git, npm, Vite, Agile Methodology, Scrum*