

SHAWN CRAHEN

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Work Experience

Web and Software Developer

April 2022 to Present

- Leverage full-stack skillset and collaborate with Agile software development team to develop a full-featured Content Management System (CMS) for a government agency
- Designed/implemented refined permissions model system-wide; reduced complexity while preserving system security and reduced future development/QA time
- Implemented roles management feature using Java, Spring, Hibernate, Thymeleaf, JavaScript; enabled users to create system roles and assign rights/users to each role

United States Coast Guard

April 2002 to July 2022

- Advanced to the highest enlisted rank, Master Chief Petty Officer (E-9), 8 years ahead of professional growth point; earned #1 score on service-wide examination at 3 different pay grades (2013, 2016, 2019)
- Earned highest possible Boat Forces certification as Surfman (2007) and assigned #392 in the national Surf Register. Held numerous other boat forces and law enforcement certifications.
- As Officer in Charge (2017-2022) supervised staff of 40 active duty, reserve, and auxiliary personnel, in the execution of over 350 high-risk search and rescue and law enforcement missions annually; saved ~75 lives and preserved ~\$1.25M maritime property annually
- Represented boat stations on selective national advisory council (2018-2021); influenced service-wide policy reforms which improved workforce management and reduced operational risk
- Collaborated with Federal, State, and Local partner agencies in maritime operations; trained/certified operators resulting in 3x increase in capabilities in area of responsibility
- Directed maintenance of \$25 million in real property assets and \$5 million in small boat assets
- Designed/implemented training, professional development, indoctrination, and education programs for 80 active duty, reserve, and auxiliary personnel (2013-2017); increased unit qualifications by 40% and developed unit-wide expertise in electronic navigation systems, search and rescue, law enforcement, and operational risk management. Certified personnel in boat forces and law enforcement competencies.
- Championed Leadership and Diversity Advisory Council (Chair) (2013-2017); held widely attended, monthly leadership workshops; crafted inclusive culture

Software Projects

Real Weather - realwx.net (May 2022)

- Designed and implemented mobile-first, single page weather application
- Leveraged several publicly available web services (weather, geolocation/geocoding, IP location)
- Technologies Used: AngularJS, HTML, CSS, Grunt, AWS Route 53, AWS S3, AWS Cloudfront

Weather Dashboard - surfstationwx.com (February 2022)

- Designed and implemented weather dashboard tailored to the needs of Coast Guard surf stations
- Deployed using AWS Elastic Beanstalk and Route 53
- Technologies Used: Spring Boot, Thymeleaf, H2, HTML, CSS, AWS, Java

Personal Portfolio - shawncrahen.com (January 2022)

- Constructed personal portfolio web site to showcase projects; deployed with AWS Route 53 & S3
- Created serverless contact form to receive contact emails using AWS API Gateway, Lambda, & SES
- Technologies Used: JavaScript, HTML, CSS, Amazon Web Services, VS Code

Minesweeper Replica - <https://github.com/minesweeper> (January 2022)

- Implemented Minesweeper clone for Windows using Java
- Technologies Used: Java, Launch4J, InnoSetup

Certifications

- AWS Certified Cloud Practitioner, Amazon Web Services

Jan 2022

Education

- M.S. Computer Science, University of Illinois - Springfield
- B.S. Environmental Science, American Military University

Dec 2021

Feb 2018

Languages and Technologies

- Languages: Java, SQL, JavaScript/jQuery, HTML, CSS/SASS
- Technologies: Spring, Hibernate, Thymeleaf, REST, AngularJS, Bootstrap, Agile, Git, Jira, Sourcetree, AWS