**SHAWN CRAHEN**

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Recent Computer Science graduate with well-established military leadership, management, and mentoring experience, seeking to leverage analytical, technical, and programming skills to bring value and make a deep positive impact as a software engineer.

**Work Experience**

**United States Coast Guard April 2002 to Present**

* 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 Surf Register. Held numerous other boat forces and law enforcement certifications.
* Led one of only nineteen surf stations in the U.S. as Officer in Charge (2018-2022), capable of operating in extreme weather conditions including storm force winds and 30-ft seas.
* Supervised staff of 40 active duty 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
* Aligned unit with strategic service goals and inspired team to achieve; led to 25% increase in operations, 75% increase in fisheries enforcement, and highest enforcement violation rate (22%) in New England
* 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 global construction company to develop safety policy/procedures for over-the-water construction staff (2017); developed and implemented PPE/MISHAP response plan and tested plan with joint agency drills
* Trained/certified Federal, State, and Local partner agencies in maritime operations; resulted in 3x increase in operational 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**

**Weather Dashboard -** [github.com/wx-dashboard](https://github.com/sjcrahen/cg-surf-station-wx-dashboard) (In progress…)

* Constructing weather dashboard tailored to the needs of Coast Guard surf stations
* Ongoing development: REST API, Spring Security, data generation to feed ML predictions, deploy with AWS
* Technologies Used: Spring Boot, Thymeleaf, H2, HTML, CSS, Java

**Personal Portfolio -** [shawncrahen.com](http://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

**BigCalculator -** [github.com/big-calculator](https://github.com/Space-Rhino/bootsrx-bignumber-calculator/releases/tag/v1.0.0) (Project Manager/Design Lead, Software Engineering course project 2021)

* Led three-member, remote team to develop Windows calculator application capable of calculations with up to 100-digit precision
* Designed and implemented app using model-view-presenter architecture
* Technologies Used: Java, JUnit, Launch4J, Inno Setup, Git/GitHub, UML, Google Drive, Discord

**Certifications**

* **AWS Certified Cloud Practitioner**, Amazon Web Services **Jan 2022**

**Education**

* **M.S. Computer Science**, University of Illinois - Springfield **Dec 2021**
* **B.S. Environmental Science**, American Military University **Feb 2018**

**Languages and Technologies**

* Languages: Java, Python, SQL, C, JavaScript, HTML, CSS
* Technologies: Amazon Web Services, Spring Framework, Hibernate, NoSQL, Git/GitHub, Eclipse, VS Code, Vim
* Other: Cloud Computing, Machine Learning, Data Mining, Data Structures & Algorithms