

Henry E Brooks

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Education and Technical Skills

California State University San Marcos, San Marcos, CA Masters of Science in Cybersecurity	May 2019
California State University San Marcos, San Marcos, CA Single Subject Teaching Credential - Mathematics	May 2015
California State University San Marcos, San Marcos, CA Bachelor of Science Mathematics	May 2014

Programming Languages: Java, SQL, React, JavaScript, Python

Development Systems: Jenkins, Selenium, SonarQube, Jira, Windows, Linux

Other: CompTIA Security+, U.S. Coast Guard Veteran

Work Experience

SAIC, San Diego, CA Software Developer	April 2018	Present
<ul style="list-style-type: none">• Designed and implemented a web UI for displaying scheduling data.• Designed and implemented an updated web UI to replace a legacy gwt interface.• Identified and refactored legacy SQL commands to decrease sync time and message size.• Updated and refactored pre-2010 Java code base to utilize Java 8 standards and best practices.• Updated and refactored Java servlet interfaces to utilize Java EE 8 and Spring framework.• Assisted in identifying and mitigating security concerns for Risk Identification documentation.• Redesigned a legacy JSP based web interface to use React.• Designed and implemented REST endpoints for use by a React based web UI		
SPAWAR, San Diego, CA Software Engineer - Intern	June 2017	April 2018
<ul style="list-style-type: none">• Created a web UI for a SPAWAR analytics project utilizing React, Flask, and MongoDB.• Created Android applications to simulate normal and malicious network traffic.• Utilized Wireshark and Python to capture and analyze network traffic.• Created a risk management report based threats identified in traffic data.• Utilized the Pandas and Scikit Learn libraries to parse network traffic for a machine learning project aimed at identifying malicious network traffic.• Utilized the Scikit Learn Python library to analyze and cluster real time data collected through side channel analysis of SCADA systems.• Utilized Python and the Pandas library to create tables and graphs for presentation of analysis performed for Machine Learning Projects.		
Valley Center High School, Valley Center, CA High School Math Teacher	August 2015	June 2016
<ul style="list-style-type: none">• Experience giving daily presentations of mathematical concepts and methods to diverse student groups. Understanding of how to present complex information to an audience.		

- Created and graded assessments and lessons covering mathematical topics. Experience planning schedules designed with specific benchmark requirements.

US Coast Guard

Nov 2006 Feb 2011

Aviation Electrical Technician

- Completed 44 weeks of technical training focused on the repair and installation of helicopter electrical systems and components.
- Knowledge of the federal guidelines for safely working with and making repairs to electrical systems that require high reliability and uptime.
- Performed daily maintenance and repair of helicopter electrical systems and components. Experience troubleshooting and repairing electrical circuits and wiring.
- Installed and updated cryptographic software and maintained a Secret clearance.