# Jerry Mack

Full Stack Software Developer

## 👤 Profile

Marine Corps Veteran, with 12 years of experience in the technology industry, public and private, with 4.5 years of software developer experience professionally, academically, and personally. I am currently a Full Stack Software Developer, with a Public Trust, developing a data collection and reporting system for the National Science Foundation. My mission is to leverage my strong technical abilities to design, develop and deploy scalable software solutions for government agencies and operations.

## 💼 Employment History

### Full Stack Software Developer (National Science Foundation) at Creative Business Solutions (Remote)

January 2023 — Present

*Currently developing and maintaining, EPSCoR, a data collection and reporting software application for the National Science Foundation using technologies like TypeScript, JavaScript, Vue.js, Java, Python, PostgreSQL and RESTful APIs to produce efficient, reusable, and reliable code that aligns with our clients requirements and business goals.

*Consistently accelerating the software development process by 20% to 50% through rapid prototyping, leveraging front-end frameworks like Vue.js on the front-end, ensuring a responsive and user-friendly experience for end-users.

*Developing server-side logic using Spring Boot and Python for microservice-based development on the backend, integrating with PostgreSQL to maintain efficient database management and high performance.

*Work with RESTful APIs daily via Spring boot Rest Controllers to integrate third-party services and functionalities, increasing the overall capabilities of the software application.

*Utilize prompt engineering daily to increase productivity as a software engineer by more than 25% with generative AI tools such as Chat-GPT.

*Design and employ JUnit tests in conjunction with Spring Boot MVC controllers to create a wide variety of tests that enhance the reliability and robustness of the software.

*Leverage Spring Boot Security to implement authentication, authorization, and protection against common web application attacks.

*Regularly utilize run and debug tools, along with Chrome Developer Tools, to analyze HTTP response codes, diagnose frontend service issues, and address console errors or messages effectively.

*Collaborate daily with cross-functional teams, including designers, product managers, and other developers, to deliver high-quality, user-centric products.

## Details

United States

8187033353

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## Links

*LinkedIn: Jerrys LinkedIn Profile

*Personal: Jerrys Portfolio

*Professional: EPSCoR Data Outcomes Collection System

## Skills

Frontend: Vue, Typescript, JavaScript

Backend: Spring Boot, Java, PostgreSQL

DevOps: AWS, Jenkins, Docker, Git, Linux

REST API Services, Microservices

Amazon Web Services Cloud Practitioner Certified

Debugging, JUnit Testing, Validations

Maven

Prompt Engineering with Generative AI tools

Communication with team members

Building APIs/Endpoints

Common Table Expressions, Triggers, Views, History tables

Application Security

Public Trust cleared

## Languages

*Contribute to writing and maintaining documentation for the client and team members, enhancing clarity and consistency of the development process.

English

### Full Stack Software Developer at Land Intelligence, Columbia
October 2022 — December 2022

*Developed full-stack solutions using React and Node.js, focusing on both front-end and back-end technologies, resulting in robust and scalable software applications.

*Implemented database interactions using MySQL to maintain and manage user and financial data, ensuring data integrity and accessibility.

*Integrated RESTful APIs to allow smooth interaction between different software components and external services, providing users with enhanced data and features.

### Biomedical Technician at Lexington Medical Center, Lexington
September 2021 — September 2022

*Analyzed, corrected, and maintained operating systems, computer systems, and medical equipment utilizing flow charts, logical thinking, and complex problem-solving solutions, saving the hospital a minimum of $1,500 weekly.

*Utilized and maintained hospital networks, alongside the IT department daily, to ensure 100% integrity, authorization, and confidentially of sensitive patient data, using medical software.

### Service Engineer at L3 Harris Technologies, Honolulu
January 2019 — June 2019

*Provided tech support to regional customers and TSA by installing and updating software using Linux, troubleshooting operating systems and networks, reporting software bugs, and maintaining X-Ray and CT-based airport security systems saving the company well over $250K in repairs costs.

*Worked with customers to identify software and mechanical problems and gave customers solutions to issues over the phone and on-site saving the company well over $500K.

### Senior Avionics Technician at US Marine Corps, Camp Pendleton
December 2012 — December 2017

*Repaired and maintained various communication, navigation, countermeasure, night vision, and software systems using FAA manuals to ensure the safety of thousands of US Marines during flight, while also being accountable for $20M worth of aviation equipment.

*Trained and mentored 42 Marines on electronic theory, complex aircraft systems, blueprints, schematics, control flow diagrams, analog systems, digital systems, databases, and manuals to complete complex problems on a day-to-day basis.

*Decreased my work center's troubleshooting man-hours by 20% using advanced flow charts, ensuring the readiness of 57 maintenance test sets, saving my unit over $10M in vital resources.

## ☙ Education

**B.S. in Software Engineering, WESTERN GOVERNORS UNIVERSITY,**
May 2022

**A.S. in Aeronautical Science, EMBRY RIDDLE AERONAUTICAL UNIVERSITY,**
December 2016 — October 2018