
NATHANIEL LOKEN

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CAREER SUMMARY

Full-stack Engineer :: Software Engineering Intern :: Telecom Associate

Dynamic and results-driven software engineer with a strong background in embedded systems, full-stack development, and software engineering for defense and aerospace industries. Proven expertise in designing, implementing, and testing complex software solutions, with a focus on delivering customer-driven products that meet rigorous standards in high-stakes environments. Adept at leading cross-functional teams, utilizing Agile methodologies, and creating innovative tools and techniques to streamline processes and enhance performance.

KEY SKILLS

✦ React	✦Python
✦ JavaScript	✦C++
✦ HTML	✦Java
✦ CSS	✦Scikit-learn/Tensor-flow
✦ Express	✦AGILE Development
✦ Django	✦Communication

EXPERIENCE

EMBEDDED SOFTWARE ENGINEER, RAYTHEON MISSILES & DEFENSE; TUCSON, AZ
– 2023-PRESENT

Recruited to build and enhance embedded weapon software, handling all phases from design and implementation to rigorous testing in diverse environments, including simulations, Raytheon labs, and external platform test events. This role also involved inventing new testing techniques and creating custom software solutions to meet evolving customer requirements.

Key Accomplishments:

- Created an internal tool to analyze telemetry data, reading message timing and amplitude for jamming analysis.
- Designed and contributed to the implementation of new software algorithms that addressed customer requirements while remaining adaptable for future enhancements envisioned in later project phases.
- Led the analysis and development of new Aircraft Simulation Unit code to accommodate novel testing techniques.
- Directed a comprehensive Test Review Board meeting, which involved customer participation and approval from multiple chief engineers.

- Participated in multiple off-site test events, leading reprogramming efforts and contributing to data analysis initiatives.
- Led a small, cross-functional team of software engineers and subject matter experts using Agile methodologies to drive project success.

FULL-STACK ENGINEER, MENTAL HEALTH WELLNESS CENTER; LAS CRUCES, NM – 2020-2023

Recruited to create an online Learning Management System in order to distribute life coaching modules.

Key Accomplishments:

- Created a reactive course creation interface with embedded videos, text, and download links using Vue.js and Django.
- Successfully integrated the Stripe API to process online payments.

SOFTWARE ENGINEERING INTERN, NASA; LAS CRUCES, NM – 2019-2020

Recruited as a software engineering intern to help create a resource management application to be used on all NASA sites for scheduling launches and other important tasks.

Key Accomplishments:

- Created a test suite of both functional and unit tests using the Python unit test library to automate testing and locate bugs quickly and efficiently saving hundreds of man hours.
- Created a CI/CD system using GitLab's runner software and yaml scripts to automate deployment and development updates.
- Created RESTful API endpoint for uploading files to the application with associated validity check using Django views and endpoint pathing functions.

EDUCATION

NEW MEXICO STATE UNIVERSITY – BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MAY 2022

Key Accomplishments:

- Created a functional prototype of an application in about 4 months, utilizing many skills like API calls to Google's map, places, and directions API's, front end development using ReactJs and Material UI, and backend development using MongoDB
- Using knowledge of Operating Systems to make a simple shell program from scratch utilizing children and exec commands to create a versatile command set
- Leveraged knowledge of machine learning and quadratic regression to create a program to analyze crypto coin prices to determine future prices.