

Robert Farley

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Software Engineer

A dynamic Software Engineer transitioning into tech with a profound project-based approach and a decade of problem-solving in high-pressure scenarios. With over 120 successful projects, my focus lies in driving innovation, enhancing efficiency, and promoting a collaborative culture in software development teams.

PROJECTS

Galactic Webstore • Apr 2024 - Apr 2024

GitHub Repo - https://github.com/Nomad-Rob/Pokemon_Galactic_WebStore

- Implemented comprehensive features including user authentication, client-side pagination, and an innovative marketplace algorithm which simulates a 24-hour cycle for buying and selling assests.
- Engineered robust backend solutions with Express and Firebase functions, ensuring scalable and flexible data handling with Firestore.

Website Link - <https://galacticwebstore.com/>

The Joy of Painting API • Mar 2024 - Apr 2024

GitHub Repo - <https://github.com/Nomad-Rob/atlas-the-joy-of-painting-api>

- Developed an efficient web service using MySQL, Node.js, and Express, enabling users to interactively filter and manage data about TV show episodes. Implemented complex features such as episode filtering by airdte, subject matter, and color palette, significantly enhancing user engagement and accessibility to specific content.
- Spearheaded a custom ETL process which involved extracting episode data from CSV files, transforming the color and subject data for database compatibility, and loading into a MySQL database.

Files Manager • Mar 2024 - Mar 2024

GitHub Repo - https://github.com/Nomad-Rob/atlas-files_manager

- A comprehensive file management system, "Files Manager", utilizing a MERN stack (MongoDB, Express, React, Node.js), enhanced with Redis for efficient session management and Bull for robust background job processing. This project showcased the ability to handle complex user authentication, file uploading, and permission management, significantly improving operational efficiency and user experience.
- Implemented advanced features such as dynamic thumbnail generation for image files and pagination for file listings, ensuring scalability and responsiveness.

Museum of the Imagination • Dec 2023 - Dec 2023

GitHub Repo - https://github.com/Nomad-Rob/Museum_of_the_Imagination

- Led a project for a Christmas-themed virtual exhibit in a 3D Space, coordinating the development of a Three.JS scene, overseeing hosting solutions, and creating an integrated online gift shop.
- Constructed a Software Design Three.JS environment as part of the Museum of Imagination's Christmas exhibit, showcasing proficiency in 3D graphics programming and front-end development.

SKILLS

API Development, C (Familiar), CSS, Docker, ESLint, ETL, Express, Firebase, Flask, Git/Github, GNU/Linux, HTML, JavaScript, MongoDB, MySQL, Node.js, Postman, Python, React.js, Redis, REST, Three.js, Ubuntu, Vite

WORK EXPERIENCE

Oklahoma Army National Guard • Tulsa, OK • Jun 2020 - Oct 2023

Helicopter Pilot UH60M

- Expertly executed numerous movement missions with a UH60M, resulting in efficient and effective transportation. Utilized skills such as Flight Planning, Pre-flight checks, Mentorship, Navigation, System Management, Emergency Procedures, Monitor in-flight data, and flight simulator assessments.

Flight Operations Specialist

- Process cross-country and local flight clearances, including examination for conformance of flight rules and regulations. Was accountable for individual flight records, files of aviation operations publications, and records through organizational skills.

Aegis/ GardaWorld Federal Services • Afghanistan • On-site • May 2019 - May 2020

Designated Defensive Marksman

- Applied mathematical strategies for mission planning and execution, optimizing operational success through geometric and probabilistic analysis accuracy. Performed day-to-day protective security functions for key Department of State personnel and reviews procedural data.

Oklahoma Army National Guard • On-site • Nov 2006 - May 2020

Sniper/Scout Platoon Sergeant

- Advanced proficiency in using mathematical models and calculations for trajectory prediction, range estimation, and environmental factor analysis. Spearheaded deployment of Sniper and Scout platoon, resulting in successful completion of multiple joint operations.

Oklahoma Counterdrug Task Force • Oklahoma City, Oklahoma, United States • On-site • Feb 2016 - May 2019

Ground Reconnaissance Team Leader

- Demonstrate comprehensive background in small unit tactical planning, communication systems, map reading, and land navigation to support law enforcement counter narcotic operations within both rural and urban environments across the state of Oklahoma and surrounding states. Provide leadership and mentorship to 8 Soldiers.

Xerox Business Solutions Southwest • Yukon, Oklahoma, United States • On-site • Feb 2015 - Feb 2016

Senior Technical Supervisor

- Managed a team of 20 personnel to successfully provide exceptional support and resolution to ongoing technical issues. Functioned as the interim operations manager, during the absence of the operations manager, to guide all technical supervisors. Directly coordinated with iOS and CPU engineers through help desk tickets to provide technical resolution, as well as with Apple retail upper management for customer resolution.

EDUCATION

Diploma - Computer Science & Full-Stack Web Development in Computer Science

Atlas School • Jan 2023 - Aug 2024

Rigorous 20 month computer science and software engineering school that is project and peer-learning bases with a test data mindset and analytic skills.

Student Life Committee Vice Chair - Represented student interests in weekly meetings with school administration.

VOLUNTEERING & LEADERSHIP

Techlahoma

- Volunteered at 2023 ThunderPlains Conference to support the logistics of the check in process for over 200 individuals.
- Involved with setting up Oklahoma's first state-wide Hackathon