Robert Farley

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Software Engineer

Results-driven Fullstack Software Engineer with a proven track record in building, optimizing, and deploying scalable web applications. Expertise in JavaScript, React, Node.js, and cloud-based solutions. Demonstrated ability to lead complex projects from conception through delivery, ensuring high-quality, maintainable code.

PROJECTS

Centsable • Jul 2024 - Aug 2024

https://github.com/Nomad-Rob/Centsable

- Led backend development designing and implementing a secure architecture using Node.js and Firebase services, including Authentication, Cloud Functions, Firestore Database, and Hosting.
- Integrated Plaid and Stripe APIs to securely manage user transactions, allowing seamless round-up donations to selected entities, enhancing the app's functionality and user experience.

https://www.centsable.app/

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 assets.
- Created robust backend solutions with Express and cloud functions, ensuring scalable 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 airdate, subject matter, and color palette, significantly enhancing user engagement and accessibility to specific content.
- Led the design and execution of a custom ETL process, enhancing database efficiency and compatibility, which facilitated data analytics for business insights.

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.

SKILLS

Agile/Scrum, Bash, C++, Confluence, C Programming, CSS, Docker, Eslint, Express, Figma, Firebase, Flask, Git/Github, GNU/Linux, HTML, JavaScript, Jira, JSON, Linux, MongoDB, MySQL, Node.js, Object-Oriented Programming (OOP), Postman, Python, React.js, Redis, REST, Slack, Three.js, Ubuntu, Vite, Web Development

WORK EXPERIENCE

FlightSafety International · May 2024 - Aug 2024
Software Engineer Intern

- Led a collaborative effort to resolve anti-aliasing issues in FSI's flight simulation systems transition to Unreal Engine, managing Jira tasks and implementing cutting-edge solutions to meet FAA standards.
- Developed and led an A/B testing framework to evaluate and grade various anti-aliasing methods, ensuring data-driven decisions that optimized visual quality.

Oklahoma Army National Guard · Tulsa, OK · Jun 2020 - Oct 2023
Helicopter Pilot UH60M

- Executed over 100 successful flight missions, utilizing advanced flight planning, navigation, and system management skills.
- Provided mentorship and leadership to junior pilots, enhancing team readiness and mission success.
- Conducted firefighting, air assault, and slingload operations, which led to unit recognition of performance.

Aegis/ GardaWorld Federal Services · Afghanistan · On-site · May 2019 - May 2020
Designated Defensive Marksman

- Streamlined protective security operations for Department of State personnel, achieving a 14% increase in procedural efficiency through detailed data reviews and security enhancements.
- Applied mathematical strategies for mission planning and execution, optimizing operational success through geometric and probabilistic analysis accuracy.

Oklahoma Counterdrug Task Force · Oklahoma City, Oklahoma, United States · On-site · Feb 2016 - May 2019
Ground Reconnaissance Team Leader

- Led the establishment of a high-performing team for the State of Oklahoma by defining mission objectives, recruiting skilled professionals, and fostering a collaborative team culture, resulting in a newly developed Ground Recon Team.
- 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.

Xerox Business Solutions Southwest · Yukon, Oklahoma, United States · On-site · Feb 2015 - Feb 2016
Senior Technical Supervisor

- Led a team of 20, boosting resolution efficiency by 25% through strategic management and innovative problem-solving in technical support operations.
- 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 -Advocated for student interests and facilitated communication between students and administration.
- May 2024 - Student of the month

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