

Marcia Hope | Software Engineer

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Full-stack software engineer with a penchant for design and a passion for problem-solving. I am organized, detail-oriented, and thrive on building strong team relationships to deliver projects on time. I love writing clean, scalable code and always enjoy learning new technologies. My background in construction project coordination has taught me the value of clear communication, collaboration, and flexibility—skills I bring to every project.

EDUCATION

Bachelor of Science, Computer Science

Western Governors University | Salt Lake City, UT

08/2024

TECHNICAL SKILLS

JavaScript, React, HTML, CSS, Ruby, Ruby on Rails, Python, Java, C++, REST APIs, Postgres, SQLite, Git, Postman

Certifications: CompTIA A+, CompTIA Network+, CompTIA Security+, LPI Linux Essentials, ITILv4 Foundation Level

TECHNICAL PROJECTS

Project Aware - [GitHub](#)

Education support app for teachers with support for product orders, speaker bookings, donations, and an admin dashboard.

- Engineered a Ruby on Rails-powered REST API using ActiveRecord, SQLite, and JWT for secure authentication.
- Utilized React Context for state management and data caching, enhancing app performance and responsiveness.
- Implemented role-based authorization with the Cancancan gem, and integrated FullCalendar, ChartJS, and Bootstrap for a dynamic user experience.

Housing Market Value Prediction - [GitHub](#)

Developed an interactive web application that allows users to adjust home features, predict the market value of properties, and make decisions on the best home improvements to invest in.

- Built an intuitive frontend interface with Dash, allowing users to input property attributes and view real-time value predictions.
- Integrated a cleaned housing dataset and used Scikit-learn to train a machine learning model for accurate property value predictions.
- Employed Pandas and Numpy for data manipulation and numerical operations, optimizing model performance and enhancing interactive visualizations.

Board People - [GitHub](#)

Developed a full-stack community forum web application where users can engage in discussions, post content, and interact with others.

- Built the front-end with React, creating dynamic user interfaces for browsing posts and leaving comments.
- Integrated Supabase for back-end functionality, including database management, authentication, and real-time updates for seamless CRUD operations.
- Hosted the app on Netlify, ensuring fast performance, easy updates, and smooth navigation throughout the forum.

EXPERIENCE

Project Design Consultant | Metro Roofing and Home Improvement, Baker, LA

02/2019 - 11/2024

- Designed and managed remodeling projects, including full kitchens, bathrooms, and additions, using CAD software to create detailed blueprints and 3D renderings for client approval.
- Collaborated with clients to assess needs, offering expert advice on project scope and ensuring accurate design implementation while balancing budget constraints.
- Liaised with subcontractors and vendors to ensure design feasibility, quality, and compliance with local codes, ensuring timely and efficient project execution.

Project Coordinator | Metro Roofing and Home Improvement, Baker, LA

06/2011 - 02/2019

- Managed project timelines, budgets, and resources for residential and commercial builds, overseeing a range of projects including apartment rehabs, roofing, and new construction.
- Tracked project costs using spreadsheets to monitor progress, manage budgets, and ensure timely payments, particularly for grant-funded government jobs.
- Coordinated with subcontractors to obtain quotes and ensure that work was completed to specification, meeting project deadlines and client satisfaction.
- Utilized accounting software to invoice clients, process payments, and track down payments for large construction projects.
- Handled project documentation, including notary work, design changes, and change orders, ensuring compliance with legal requirements and accuracy in all official paperwork.