Morgan Hobson

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Objective

Seeking an entry to mid-level web developer role, combining civil engineering experience with skills from personal web application projects, professional automation scripting, and consulting. Ready to contribute a unique blend of expertise and a diverse background to excel in web development.

Skills

Languages/Frameworks: Python, JavaScript, HTML, CSS, C#, Flask, Visual Basic, SQLite, Jinja
Tools/Other: Google Cloud Platform (GCP), Git, Github, Docker, Linux, Microsoft Office, Visual Studio, VS Code
Communication: Educational webinars, technical reports, external client interaction, marketing proposals

Projects

Gift Exchange Web Application   *https://gift-exchange.onrender.com*
Designed and deployed a dynamic web application using the Flask web framework with Python, enhancing the user experience for orchestrating personalized and automated Secret Santa-style gift exchanges within group settings.
- Executed user account creation and authentication features, ensuring secure and personalized interactions.
- Developed a user-friendly interface allowing participants to customize exchange parameters.
- Implemented an automated email notification system to discreetly assign gift recipients.

Deployed Social Blog Site   *https://github.com/mohobson/quackr*
Successfully deployed a dynamic social networking web application to Google Cloud Platform, utilizing the Flask web framework with Python for robust backend functionality.
- Designed and constructed the web application with the Jinja web template engine, employing the SQLite database engine for data management.
- Implemented user authentication, enabling secure account creation and login.
- Facilitated user-generated content by enabling posting to a shared timeline on the webpage.

Automated Stock Market Analysis System   *https://github.com/mohobson/marketdata*
Designed and implemented an automated stock market analysis system using cloud computing resources provided by Render. This system generates daily stock market reports delivered to a designated email inbox.
- Developed a Python-based program that seamlessly interacts with stock market APIs to retrieve financial data.
- Implemented a robust algorithm for generating insightful charts and detailed Excel spreadsheet reports.
- Automated report delivery via email utilizing SendGrid's email API.

Employment

Kimley-Horn | Raleigh, NC   *May 2019 – Present*
Roadway Design Engineer
- Effectively managed engineering project schedules, resources, and budgets, overseeing projects for NCDOT, municipal, and private offsite clients with budgets totaling approximately $500k.
- Established a reputation as a trusted resource for the engineering software transition from GEOPAK MicroStation to ORD, conducting live tutorials and producing comprehensive documentation for Bentley users across Kimley-Horn.
- Designed and implemented a batch processing script, automating CAD file cleanup procedures for electronic project submittals, resulting in a 50% increase in efficiency and improved project profitability.
- Cultivated client relationships, ensuring a deep understanding of their needs and delivering tailored solutions.
- Mentored junior staff members, imparting engineering concepts and software proficiency.

Education

North Carolina State University | Raleigh, NC   *Aug 2015 – Dec 2019*
Bachelor of Science in Civil Engineering | Minor in Business Administration