Morgan Hobson

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Objective

Dependable civil engineer with three years of industry experience. Seeking to leverage skills gained as a civil engineer combined with disciplined, self-taught programming practices and apply them to a software engineering career.

Education

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

Skills

Languages/Frameworks: Python, JavaScript, HTML, CSS, SQLite, Jinja, Flask
Tools/Other: Google Cloud Platform (GCP), Git, Github, Docker, Selenium, Linux, Microsoft Office, VS Code
Communication: Design proposals, technical reports, instruction manuals, educational webinars
CAD Software: MicroStation, GEOPAK, OpenRoads Designer (ORD), AutoCAD Civil 3D

Projects

Stock Market Analysis
https://github.com/mohobson/marketdata
- Automated Python program that uses API endpoints to collect data from the stock market. The algorithm utilizes various Python libraries to identify potential opportunities in the stock market, then creates an Excel spreadsheet with charts that are emailed to my inbox using SendGrid's email API.
- Used Mac OS X terminal through Visual Studio Code with Git for version control.
- Hosted project in the cloud using Render's cron scheduling service to receive daily reports.

Social Blog Site
https://github.com/mohobson/quackr
- Deployed a dynamic social networking application to Google Cloud Platform with Flask and Python.
- Built application with the Jinja web template engine, SQLite database engine, and HTML/CSS.
- Intended for users to create an account, log in, and write posts to a shared timeline on the webpage.

Employment

Kimley-Horn | Raleigh, NC *May 2019 – Present*
Roadway Design Analyst / Infrastructure
- Operated Bentley's OpenRoads Designer (ORD) software to model and produce public hearing maps for a major interchange and corridor widening project that led to a successful meeting with 50 stakeholders.
- Led multifaceted projects involving persistent coordination with a range of engineering disciplines including roadway, hydraulics, structures, land development, traffic, and more.
- Eased the software transition from GEOPAK MicroStation to ORD for my team by hosting lunch-and-learns and initiating a shared resource with notes on configuration and tips/tricks when using ORD.
- Managed schedule and approximately $200k budget for NCDOT, municipal, and offsite project tasks.
- Served ongoing role as Continuous Quality Improvement (CQI) Champ for the Raleigh Infrastructure group to implement quality initiatives and host educational events relevant to engineers.
- Developed a batch processing script that automates the required CAD file cleanup process for electronic project submittals, increasing efficiency by 50% for this task to help meet project budgets.