Morgan Hobson

5909 Shadetree Ln Apt B Raleigh, NC 27613

(336) 529 3879 | mohobson8@gmail.com | LinkedIn: mohobson | Github: mohobson

Objective

Seeking to leverage detail-oriented skills gained from four years of industry experience as a civil engineer combined with knowledge instilled from The Odin Project, professional automation scripting, personal projects and other credible learning resources to transition into a full-time software engineer with a unique skillset and background.

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, C#, Visual Basic, SQLite, Jinja, Flask
Tools/Other: Google Cloud Platform (GCP), Git, Github, Docker, Linux, Microsoft Office, Visual Studio, VS Code
Communication: Marketing proposals, technical reports, comprehensive documentation, educational webinars
CAD Software: GEOPAK MicroStation, OpenRoads Designer (ORD), AutoCAD Civil 3D

Projects

Automated Stock Market Analysis

https://github.com/mohobson/marketdata

- Leveraged Render's cloud computing to autonomously conduct daily stock market analysis delivered to my inbox.
- The Python-based program 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 me using SendGrid's email API.
- Used Mac OS X terminal through Visual Studio Code with Git for version control.

Deployed Social Blog Site

https://github.com/mohobson/quackr

- Deployed a dynamic social networking web application to Google Cloud Platform with Flask and Python.
- Built web 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

- Efficiently managed engineering project schedules, staff and approximately $500k budget for NCDOT, municipal and private offsite clients.
- Developed CAD software automation tools using C# in Visual Studio with the OpenRoads Designer (ORD) SDK to eliminate repetitive production tasks in ORD and increase project profitability.
- Delivered quality roadway, bridge and constructability plan sets for major infrastructure projects in North Carolina including part of RDU's Vision 2040 Master Plan, the NC 55 Bypass and an I-40 interchange design.
- Established myself as a trusted resource for the engineering software transition from GEOPAK MicroStation to ORD by hosting live tutorials and writing extensive documentation for Bentley users across the company.
- Served ongoing role as Local Quality Advocate (LQA) for the Raleigh Infrastructure group to implement quality initiatives and host educational events relevant to engineers.
- Wrote and distributed 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 increase profitability.