Mike Bu

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EMPLOYMENT

W&A Engineering
Project Engineer   Atlanta, GA | *March 2023 - Present*
- Use JavaScript and HTML based Google Maps API for determining building types and geocoding addresses of projects
- Accomplish expert consultant roles, such as solving engineering case studies, problem analysis, dividing up team workload
- Utilize Civil 3D to create site design, architecture, calculations of traffic flow and water retention of development locations

Kimley-Horn and Associates, Inc.
Civil Engineering Analyst   Alpharetta, GA | *November 2021 – March 2023*
- Used programming language Dynamo for Python scripts to help automate Civil 3D civil engineering tasks
- Took manager-specific roles, including roles in client meetings, leading in development projects, taking charge of interns
- Individually achieved a productivity rate of 110%, with our team exceeding our 2022 project goal of $1.8M by over $0.5M

Civil Engineering Analyst Contractor   Alpharetta, GA | *July 2021 – November 2021*
- Implemented civil engineering procedures, working in their environmental and development services divisions
- Performed quality checks on site design, engineering decision making, and understanding regulations for code of ordinances

University of Georgia: Facilities Management Division
Mechanical Design Engineer Intern   Athens, GA | *September 2020 – May 2021*
- Used programming language Dynamo for Python scripts to help automate AutoCAD 3D mechanical engineering tasks
- Designed the blueprint of HVAC and utilities for University of Georgia buildings using AutoCAD 2D & 3D, and Revit

Case Western Reserve University
Biomedical Engineer Intern   Cleveland, OH | *June 2020 – August 2020*
- Constructed an interactive website using HTML/CSS and JavaScript with modules informing college students on COVID-19
- Remotely assisted with user needs, functional & technical specifications, architecture of Canvas and Google Forms

PROJECTS

Messenger Application   github.com/mikezbu/Messenger_App | *Python*
- Created a text-editor PIP and graphics interface-based group messaging application, using projects Socket and Threading
- Included a client and server that handles the import of messages, and provides instructions on how to send messages
- Constructed so that the client is able to send messages from any device that is able to support Python and host connection

Connect Four   github.com/mikezbu/Connect_4 | *Python*
- Created a text-editor interface-based Connect Four Game, using projects NumPy and PyGame, playable by two people
- Incorporated a matrix as a board, drawing commands to create the pieces, and included a winner screen at game over
- All characteristics of the game incorporated into one file, has mouse tracking properties for the pieces

Rock Paper Scissors   github.com/mikezbu/Rock_Paper_Scissors | *JavaScript, HTML, CSS*
- Created an interactive graphics interface-based Rock Paper Scissors Game, accessible on a server, playable against computer
- Incorporated favicon.ico, Google API fonts, interactive buttons, and other elements to create a cohesive website host
- Implemented all case outcomes of the game, providing clear feedback when game is ended or button is pressed

RELEVANT SKILLS
- **Programming Languages:** JavaScript, HTML, CSS, Python, R, MATLAB, Dynamo
- **Programming Frameworks:** Django, React
- **Software Programs:** Git/GitHub, Microsoft Visual Studio Code, PyCharm, Google API, Linux, AutoCAD/Civil 2D/3D

EDUCATION
University of Georgia
Bachelor of Science in Biological Engineering   Athens, GA | *May 2021*