MUHAMAD FIRDAUS HUSAINI

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EDUCATION

University of Wisconsin-Madison | 2016 – 2020

Major: *Computer Science*   Certificates: *Graphic Design & Game Design*

JOB EXPERIENCE

Scientific Data Analyst Intern | September 2019 – Now

Morgridge Institute of Research, Madison, WI

- Designing a data visualization script to process scientific data into meaningful plots using Bokeh and Scikit Learn.
- Built a script to fetch gene descriptions and symbols through several databases using Pandas, NumPy and SQL
- Developed a scoring algorithm for aligning genomes of different species using Python

Scientific Front End Web Developer Intern | April 2019 – September 2019

Morgridge Institute of Research, Madison, WI

- Developed a responsive website to host the blue whale genomic data for research publication using React, SCSS and Bootstrap.
- Designed a genome browser's UI script for easier navigation and annotation of genome sequences using JavaScript.
- Built plugins to allow genomic sequence searching and processing raw data using Bash and Python.
- Implemented batch requests for a text-mining software to boost the job speed using Elasticsearch in Python

Computing Support Assistant | Dec 2018 – April 2019

College of Agricultural Life Sciences, Madison, WI

- Performed tasks such as troubleshooting networks, version control, drivers, deployment and software/hardware issues
- Automated tasks in setting static IPs, administrative registrar and domain server setup using Batch and PowerShell.

PROGRAMMING LANGUAGES

Proficient: Python, HTML, CSS, Java, JavaScript
Intermediate: C, SQL, C++

TECHNICAL SKILLS

Proficient: InDesign, Illustrator, Microsoft Deployment System, Jira, Pandas, NumPy, Git
Intermediate: Batch, After Effects, Maya, Unity, Docker, Bash, Perl

RELEVANT COURSES

Introduction to Algorithms, Computer Graphics, Data Management for Data Science, Operating Systems, Virtual Reality, Computer Programming, Data Structures, Introduction to Machine Learning, Basic Graphic Design

LEADERSHIP ACTIVITIES

Co-Founder & Vice President, *Coding for Good* | September 2017 – May 2018

A student organization aimed to help non-profits with projects to bridge computer science and social change. Site: https://www.coding4good.net

- Collaborated with more than 15 local non-profit organizations and philanthropic bodies for tech projects
- Managed club activities, speaker series and community engagement events to connect clients with students

PROJECTS

Kinderminer Web App (Flask, Python, JavaScript, HTML, CSS) | *Morgridge Institute of Research*

- Built a front end framework which connects to a NCBI database and evaluates the relational values between key phrases.

Genome Annotation Browser JBrowse (Bash, JSON, Python, HTML, CSS, JavaScript) | *Morgridge Institute of Research*

- Designed a genome annotation browser to view and annotate genomic data and host datasets on a web server.

Blue Whale Portal (React, CSS, Bootstrap, JavaScript, HTML) | *Morgridge Institute of Research*

- Developed a web platform to host genomic datasets and archive data for a research publication.

Personal Website (React, CSS, Bootstrap, JavaScript, HTML, Node.js) | *Personal*

- Utilized React and webpack languages to build responsive website with fluid user interface.