MORGAN TAYLOR

Highly motivated, proactive college graduate with an emphasis in computer science, physics, and mathematics that is eager to work and learn in a technical environment. Substantial knowledge of data analysis, technical support and solutions, and relationship management tactics. An avid user of test driven development to ensure that top quality is always attained.

CONTACT

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SKILLS

Programming

Python
Java
Assembly(x86-64)
JavaScript
HTML/CSS
LaTeX
R
SQL
C++

Operating Systems

Linux
MacOS
Windows

Software & Tools

Visualisation
(e.g. matplotlib, matlab, ...)
Data handling/analysis
(e.g. numpy,Keras/Tensorflow, pandas, ...)
Docker
Git
Engineering Processes
(e.g 3-D AutoCAD drafting, prototyping, circuitry)

Concepts

Object Oriented Programming, Agile Extreme Programming, Relational Databases, Machine Learning, Linear Modeling, Quantum Mechanics

Languages

English
Russian

WORK HISTORY

01/2018-05/2020
Lewis Clark College, Portland, OR

Physics Lab Teacher Assistant

Supported the physics curriculum and implemented administrative solutions to assist in the set-up of experiments and grading lab reports. Integrated technical support and answered conceptual questions to ensure accuracy of experiments.

08/2018-05/2020
Lewis Clark College, Portland, OR

Resident Advisor

Managed the full scope of administrative and management responsibilities for 30+ student residents in a high stress environment. Implemented first-hand managerial and supervision support to provide a safe, supportive, and predictable environment for students. Strategically supported the scheduling and estimation of tasks with team members to ensure optimal organization and resident-focused solutions.

08/2017 - 05/2018
Lewis Clark College, Portland, OR

IT Service Desk Technician

Guided first and second line technical support to internal staff to ensure technology efficiency in the classroom. Demonstrated a strong aptitude for critical thinking working with applications/systems, and diagnosis and resolution of staff needs, ranging from straightforward to more complicated technical issues. Strategically analyzed technical requirements, resolved problems, and cultivated authentic working relationships to maintain technical support.

EDUCATION

08/2016 - 05/2020
Lewis Clark College, Portland, OR

Bachelor's of Arts in Physics
Bachelor's of Arts in Mathematics

RESEARCH PROJECTS

01/2019 - 05/2019
Lewis Clark College

LDBC Benchmark Testing

The LDBC SNB(Social Network Benchmark) is operating in its Interactive workload, with a combination of concurrent update and read queries of varying complexity. These queries are run against a generated database with an adjustable scale factor, and the sustained number of queries per second is recorded. The LDBC SNB is intended to test performance of graph-like data management systems to test various functions of them. The benchmark can be used on relational data management systems to test the same functions. Since the benchmark is intended for graph-like systems, but it can be run on a relational system, such as MySQL, it would be expected to be outperformed by a graph-like system.

08/2019 - 09/2019
Lewis Clark College

Fourier Optics

Just as sound can be studied in both the time and frequency domain, images can likewise be studied in two domains (space and frequency) by performing a Fourier transformation on the image. This simple fact opens up many possibilities, as performing a Fourier transformation on images can distinguish individual components from each other.

09/2019 - 03/2020
Lewis Clark College

The Creature

The Creature was created to be a simple but functional robot that could transverse a wide range of different surfaces. Looking for inspiration, we came across an article in Industrial Robot that discussed a six-legged robot designed by two mechanical engineers from Firat University. After concluding our research, we focused on making a six-legged robot that would mimic the natural gait of an insect.