

A decorative graphic of a molecular structure, featuring various sized spheres (black, white, and grey) connected by thin white lines, resembling a network or a chemical structure. It is positioned in the upper right and lower right corners of the slide.

genetrival

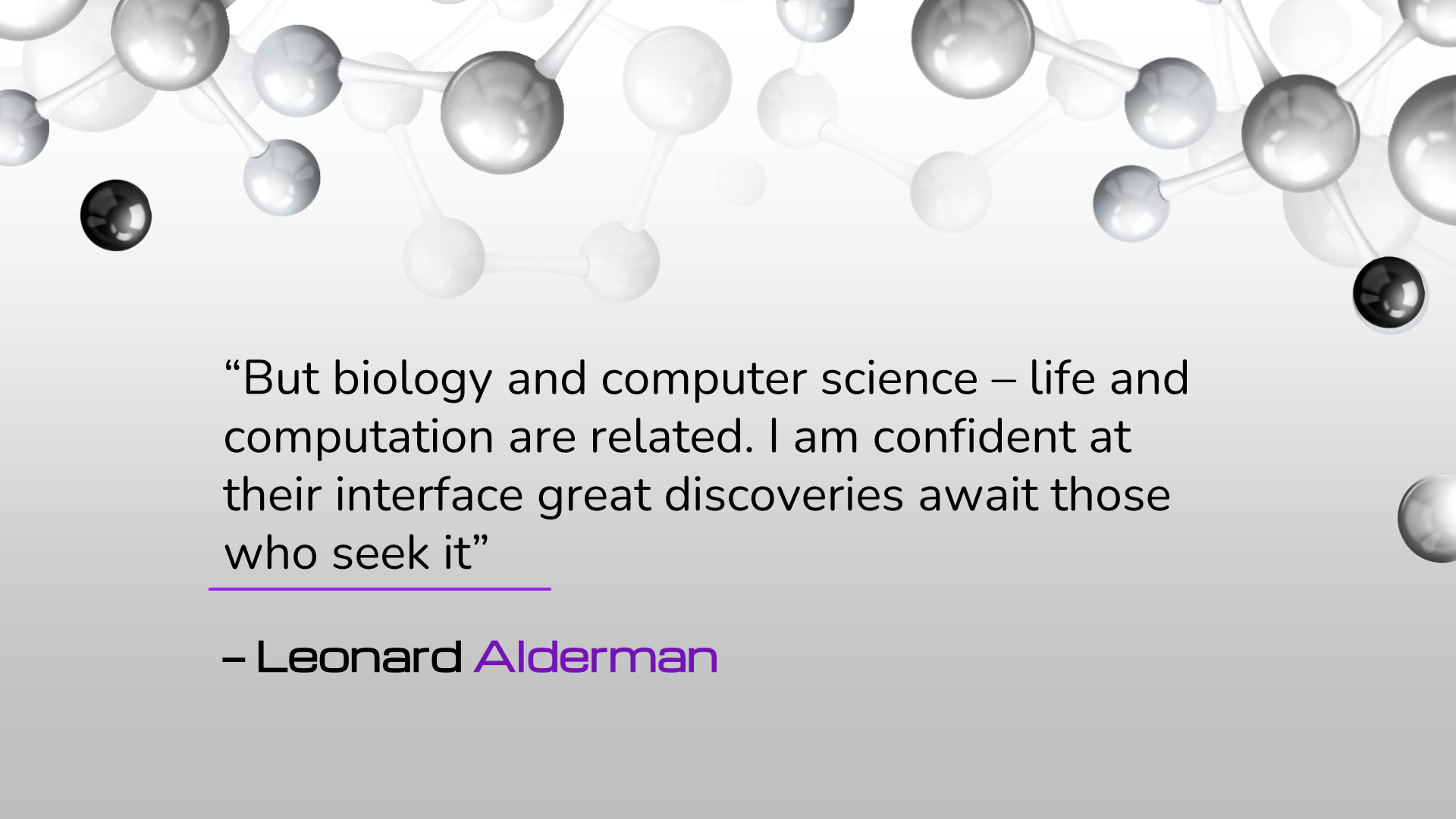
NCBI POTABLE GENE RETRIEVAL

BORBI STEPHEN

Introduction

The project aims to build a web application that retrieves information about a specific gene from a public database like NCBI and displays it to the user.





“But biology and computer science – life and computation are related. I am confident at their interface great discoveries await those who seek it”

– Leonard Alderman

LEARNING OBJECTIVES

1. Build web applications using a web framework like Flask or Django.
2. How to interact with APIs and retrieve data from external sources.
3. Designing and implementing a database schema using SQLite.
4. Gaining experience in writing efficient and scalable code.
5. Developing skills in testing and debugging applications.
6. Deployment web applications using cloud services like Heroku or PythonAnywhere.

TECHNOLOGIES

1

**Programming
Language**
Python

2

Web frame
Flask

3

**Database
schema**
SQLite

4

Frontend
HTML, CSS,
Javascript

5

Backend
Biopython library

6

Deployment
Heroku



MOCKUP

Genetrieval

Get your information on a gene

search



The background of the slide features a light gray molecular structure composed of spheres and connecting rods, resembling a network or polymer chain. The spheres are rendered with a metallic, reflective finish, showing highlights and shadows. The structure is distributed across the slide, with some parts being more prominent than others, creating a subtle, scientific aesthetic.

Thanks!

Do you have any questions?

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