Ivan Khurudzhi

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Education

- B.S., University of Wisconsin-Madison, 2019-2022.
- Computer Science and Mathematics

Skills

- · Proficient in Java, Python, C#
- Familiar with JavaScript, HTML, CSS
- Experience with JUnit, JavaFX, NumPy, Keras, PyTorch, scikit-learn, Matplotlib, SciPy, OpenGL, Spotipy

Projects

Spotify Classifier

(January 2021)

- · Python, Atom
- Writing a Python script that fetches a Spotify user's playlist and adds new playlists to the user's library each containing songs from the original playlist classified by genre
- Using Spotify API and Spotipy library to communicate with the user's Spotify library
- Using last.fm API to request the information about the songs' genres
- N-Queens Problem

(Fall 2020)

- · Python, Atom
- Finding an optimal solution to placing n queens on an n*n chessboard
- Implementing the Hill-Climbing algorithm with random restarts
- · Analysis of Farm Production of Milk

(Summer 2020)

- · Java, Eclipse
- Designed a multi-class GUI program adhering to OOP principles
- Implementing the program using JavaFX
- Implementing a testing class with JUnit
- Visualization of a Gravitational Field in Einstein's Gravitational Theory (Summer 2019)
 - C#, Visual Studio
 - Mentor Vladimir Strokov, researcher at Moscow Institute of Physics and Technology
 - · Working with multidimensional arrays and complex physical and geometrical values
 - Visualization with OpenGL

Research

Team: Information Skunkworks at the University of Wisconsin-Madison

Project: Defect Detection Using Models with Synthetic Images

Description: Using deep learning-based object detection models to characterize and

quantify defects in electron microscopy images (01/2021 - present).

Work Experience

Concert Director

(August 2018 - June 2019)

Company: Veshalka Market
Location: Moscow, Russia

• Job included: Booking artists for music performances, controlling the sound equipment and the soundboard.