

Eliot Dixon

KDV Decision Analysis LLC
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CORE COMPETENCIES

- Delivery, research, and instruction of data science
- Software development including mobile applications, artificial intelligence, across multiple platforms and languages
- Design and implement IT administration systems for hardware, software, diagnostics, and repair

EDUCATION

University of North Carolina at Asheville
Bachelor of Science, Computer Science
Graduated Cum Laude

December 2018

PROFESSIONAL EXPERIENCE

R Application Developer

KDV Decision Analysis LLC (Contracted Intern)
February 2019

- Developed an application in R designed to obtain, clean, and display cadastral data from the US Fish and Wildlife Rest API

Advanced Repair Agent

Best Buy

July 2019 - February 2020

- Diagnose and repair software/hardware issues present in client devices
- Remove malicious or potentially unwanted programs

Java and SQLite Mobile Application Developer

StreamLine (Self Employed, start-up)

September 2019 - Present

- Developed a mobile application in Java for the rapid calculation of Hilsenhoff biotic index to be used in the field by biologists or aquatic entomologists
- Worked alongside aquatic entomologists to provide assistance and receive expert feedback on application feature development

Undergraduate Data Science and Programming Teaching Assistant

UNCA Asheville, Prof. Kevin Sanft, Department of Computer Science (Intern)

September 2017 - September 2018

- Assisted in the production and organization of course material for a data science course and an introductory programming course covering Python and R

Python Software Developer and Researcher

UNCA Asheville, Department of Computer Science (Intern)

September 2017 - September 2018

- Worked alongside a team of students and faculty to develop a Python package designed to provide methods for obtaining statistically correct trajectories for biochemical ordinary differential equations

Java Artificial Intelligence Developer

Othello Tournament (Self Employed, competition)

September - December 2017

- Developed an AI system in Java which took first place in an Othello tournament between twenty other competing systems
- Implemented an alpha-beta pruning algorithm to determine moves

TRAINING AND CERTIFICATIONS

Course Highlights

Data Science, Software Engineering, Parallel Programming, Artificial Intelligence, Introduction to Databases, Data Structures, Biology I, Biology II, Botany I, Statistics, Discrete Math
Programming languages: R, Java, SQL, C, Python

Operating Systems

Windows, Ubuntu

Certifications

Core Spatial Data Analysis: Introductory GIS with R and QGIS (2020)
Intermediate Spatial Data Analysis with R, QGIS & More (2020)
Species Distribution Models with GIS & Machine Learning in R (2020)