Crystal "Danikka" Jelski

Cedar Grove, NJ 07009
862-290-0106 cdjelski76@gmail.com linkedin.com/in/danikka-jelski-077775230/

Education

Rutgers University- New Brunswick **Sep. 2022 – May 2026**
Bachelor of Science in Computer Science *New Brunswick, NJ*

- 3.91 GPA — Dean's List
- Events: HackHers 2023; CreateRU 2023 — Clubs: WiCS (Women in Computer Science); IEEE Electronics Division

Technical Skills

Languages: Java, C, R, HTML/CSS, Javascript
Developer Tools: VS Code, RStudio
Technologies/Frameworks: Linux, React
Spoken Languages: English (native), Filipino (limited working proficiency)

Relevant Coursework

- Computer Architecture (C)
- Data Structures (Java)
- Intro to CompSci (Java)
- Discrete Structures I & II
- Data 101 (R)
- Calculus I & II
- Intro Linear Algebra
- Physics I & II

External Coursework

- CodePath's Intro to Cybersecurity Course (cert)

Experience

Rutgers Computer Science Department **January 2024 – May 2024**
Discrete Structures I Grader *Piscataway, NJ*

- Graders work with professors and TAs (teaching assistants) to grade assignments and exams, answer student inquiries, proctor, proofread quiz questions, and respond to regrade requests.

YMCA of Montclair **May 2023 – March 2024**
Membership Services Representative *Montclair, NJ*

- Some services include but are not limited to registering memberships and programs, giving facility tours, and addressing questions and issues to meet member needs.
- Entails an emphasis on communication, inclusion, and the commitment to help build a strong community.

Bandila Studios, LLC **May 2022 – June 2022**
Project Intern *asynchronous*

- Collaborated with a team member to design a plausible data structure for a brand audit quiz that would vet the clients on their needs, such as their social media presence and marketing.
- Utilized HTML, Python, and Canva.

Projects

Infinity War | *Java* **April 2023**

- Course project with a theme from the movie "Infinity War" that implements the adjacency matrix graph through directed and undirected representations.
- Implements Dijkstra's algorithm to find a minimum value from the initial and last vertex.

Movies Prediction Challenge | *R* **Dec 2023**

- Built a prediction model to predict whether a movie will get "Great" rating or just "Average" rating using a training data set for a class competition. Attained 0.94985, with the highest score being 0.95, of matching the competition's testing data set.
- Utilized freestyle data analysis techniques such as data visualization and data preparation through functions such as "rpart" or recursive partitioning and regression trees, and other graph types like boxplots.

Future Salary Prediction Challenge | *R* **Dec 2023**

- Built a prediction model to predict one's future salary based on categories such as college tuition, age, GPA, and geographical location. Attained an MSE of 149.86748 from the competition's testing data set.
- Utilized linear regression models and "rpart" or recursive partitioning and regression trees. Consolidated the predictions into one final decision vector.

Stacks, Queues, Trees, Graph Algorithms | C **Feb 2024**

- Uses and builds data structures and recursive function calls to continue from material in the Data Structures class, but in C. Graph algorithms and hashing algorithms, for instance, are implemented.
- Some of the tasks of the assignment included finding a cycle in a directed graph using depth-first search ("findCycle") and simulating the inventory and sales of a record store using a separate chaining hash table ("hashTable")

Representing and Manipulating Information — *C* **March 2024**

- Experiments with how computers carry out mathematical operations such as addition, subtraction, and multiplication on the data representations.
- Some of the tasks included finding the product of two single-precision floating numbers via operations in binary ("floatMul"), and finding the binary representation of a double-precision floating point number ("doubleToBin").

Relevant Awards and Honors

Dean's List **May 2023**

Rutgers- New Brunswick

- A qualification determined by a semester grade-point average of 3.500+ with 12+ credits per semester. Earned for four consecutive semesters.

Certificate of Special Congressional Recognition **Dec 2020**

Cedar Grove High School

- A recognition given for a group-based Javascript project called "AppDHD," which was submitted to the "Congressional App Challenge."