Cullen W. Pek

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Objective

Creative and people-oriented student with aspiring goals of becoming a software engineer. While looking to explore the possibilities in the field of data science or a data analytics.

Education

Rutgers University| New Brunswick, NJ *September 2022– Present* Bachelor of Computer Science B.S and a Minor in Data Science, Expected Graduation, May 2026

Relevant Courses

Introduction to Computer Science, Data Structures, Computer Architecture, Software Methodology, Calculus I, Calculus II, Intro to Discrete Structures I, Statistical Inference for Data Science, Regression Methods, Writing for Engineers,

Projects

Remote Facial Recognition Controlled Computer Starter *Spring 2023* • Created a U.S. Patent that is patent pending.

Local Chat Room *Summer 2024* • Made in Python, using a server and a client, and message routing. The server listens for incoming messages from the clients, which then distributes the messages to all of the clients connected to the server.

Application Tracker *Summer 2024* • Developed an application to efficiently manage and organize job applications using object-oriented programming principles and data structures. Implemented a priority system to categorize applications by urgency, application date, job title, company, and status. Integrated an email automation system to automatically update an SQL database with application status. Enabled automated removal of denied application and generated reports in excel.

Forensic Analysis *Spring 2024* • Applied Binary Search Trees and Queues to assemble a profile of names and DNA sequences and placing it within a binary search tree. As well as utilizing the ability to complete deletion within the tree, as well as traversing through to mark specific profiles within the tree.

Climate and Economic Justice *Spring 2024* • Processed data using linked links, to help analyze social and environmental aspects of different communities. Utilized the fundamentals of linked lists and extracting specific data from such.

Knight Tour *Spring 2022* • Developed an algorithm to move a knight across a chess board 64 times, without explicit directions per move.

Experience

Franklin High School Strength and Conditioning, Franklin Recreation Department – Franklin, MA June *2021 – August 2021*

- Assisted athletes with the form of exercises in order to advance their skill
- Installed workouts that were optimal for each individual and their needs as a growing athlete
- Collaborated with other coaches on the knowledge of exercises and routines that better fit lifestyles

YMCA – Camp Wiggi – Franklin, MA *June 2023 – August 2024 STEM Lead*

- Organized and led diverse camp activities including sports, arts and crafts, hiking, and games, ensuring engaging and enjoyable experiences for campers.
- Effectively handled disputes and issues among campers, employing conflict resolution skills to maintain a safe and fun camp environment.
- Provided regular updates to parents regarding their children's experiences and addressed any concerns, ensuring transparent and effective communication.

Skills

Programming: Python, JavaScript, Java, R, HTML, SQL

Software: RStudio, GitHub, Microsoft Excel, VSCode

Leadership/Activities

Rutgers Facile Club, Member *September 2022-September 2023*

- Weekly meetings discussing French etiquette, language, and culture

Rutgers Intermural Football and Volleyball, Captain *September 2022 – Present*

- Scheduled weekly practices in preparation for competition against weekly opponents

Rutgers Data Science Club, Member *September 2022 – Present*

- Weekly seminars teaching us the complexities of data science and how to utilize such

Rutgers Delta Chi Fraternity, Member September 2022 - *Present*