

KEVIN MONISIT

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EDUCATION

Rutgers University

School of Arts and Sciences

• Computer Science BS • Honors Program • GPA: 4.0

New Brunswick

Sep 2021 - May 2025

Toms River High School East

GPA: 4.0 / Rank 3/334

Toms River, NJ

Sep 2017 - June 2021

Currently Enrolled in and Past Coursework:

Data Structures, Computer Architecture (Spring 2022), Intro to Discrete Mathematics (Spring 2022)

WORK EXPERIENCE

Rutgers Open Systems Solutions | *Student Systems Programmer*

- Worked on new features/improvements on Shrunk, the official Rutgers URL shortener, using React, Flask, Python, and MongoDB

SKILLS

Languages: JavaScript, Java, Python, HTML, CSS

Technologies: Git, React, Flask, Jest, tailwindcss, Unix-based OSs, MongoDB

PROJECTS

Predicting Chronic Absenteeism in High School | *Python, Scikit-Learn, Matplotlib, Pandas*

- Predicted student chronic absenteeism before they entered high school using scikit-learn
- Collected longitudinal student data from a secured dataset of seniors that graduated in 2020
- Determined the best parameters for the models via exploratory analysis in Jupyter
- Used hyperparameter tuning to further optimize the models for >85% labeling accuracy

Traveling Salesman Problem | *Javascript, HTML, CSS*

Using genetic algorithms, determined shortest path between nodes in a 2D graph.

- Tested different selection algorithms such as Roulette and Tournament
- Added interface to test and change mutation and crossover techniques
- Determined 40% mutation rate for 100 nodes reached local optimum the fastest
- Created visualizations of generational progress to conceptualize optimal parameters

Text2Anki | *Python*

- Created CLI program for the spaced-repetition flash card program, Anki
- Reads and produces cards en-masse for a better studying experience
- Enables the customization of produced cards to fix edge-case scenarios

Calculator | *CSS, Javascript*

- Created calculator web app with basic functionality and a user interface
- Utilized CSS Grid Layout to perfectly align number/operation buttons
- Designed in a way that imitates the iOS calculator app, along with other similar features

EXTRACURRICULARS

Hospital Volunteer

- Over 270+ hours working the front desk, handling incoming requests, taking calls, etc.

2018-2020

Jazz Band | *Pianist*

- Toured local schools and played in band competitions representing high school
- Learned to improvise solos and musically complement other band members

2018-2020

Track & Field | *Varsity*

- Sprinted in both winter and spring seasons, running relays and short-distance races

2017-2019

- Mentored new team members on how to become acquainted with the gym and the sport in general