Kevin Monisit

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Education

Rutgers University New Brunswick
School of Arts and Sciences September 2021 - May 2025
• Computer Science BS • Honors Program • GPA: 3.92

Current and Past Coursework:
Data Structures, Computer Architecture, Discrete Mathematics I, Discrete Mathematics II (Fall 2022)
Systems Programming (Fall 2022)

Skills

Languages: JavaScript. Experience with Java, Python, HTML, CSS, & C
Technologies: React, Git, MongoDB, & Express. Experience with Flask, Jest, tailwindcss

Work Experience

Rutgers Open Systems Solutions | *Student Systems Programmer* January 2022 - Present

- Worked on 10+ improvements and bug fixes for Shrunk, the official Rutgers URL shortener, using Python, Flask, MongoDB, Typescript, and React
- Simplified dashboard button placement and converted Rutgers logo to SVG in the navbar
- Implemented a critical security feature and verification process for 1,000s of links in Shrunk using Google Safe Browsing API and by developing a RESTful API
- Created a group-specific notification system for administrators to notify 1,300+ faculty and staff
- Developed a comprehensive and interactive calendar for RUmeeting, a Rutgers-affiliated meeting coordinator, with React and tailwindcss

Projects

Scarlet Navigator | *React, Express, MongoDB, Typescript*

- Designed a comprehensive web-application for Rutgers students to plan out their courses, including course prerequisite validation, user customization, and drag-and-drop functionality
- Automatic core requirement evaluation, along with credit tracking and course indicators
- Allows users to select a target course and see a valid course plan, organized by sequential semesters
- Includes over 4,500+ Rutgers courses with displayable information, such as credit and course numbers

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

Extracurriculars

HackRU Organizer | *Project Developer* January 2022 - Present

- Working with a team to develop Sledge, a MERN judging web-app, for convenience in judging projects in Rutgers University's official, biannual Hackathon