

# *NLP Course Recommendation Before/After Screenshots*

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*Bernard Major*

# Authentication Screen

Before

KSU Elective Recommendation System

More Login/Register

### Login

Email

Password

LOGIN

[Create an account](#)

App running React and Daisy UI

After

KENNESAW STATE UNIVERSITY  
NAV YOUR ED

More Login/Register


### Login

Email

Password

LOGIN

[Create an account](#)

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# Recommendation Screen

Before

The 'Before' screenshot shows a web application with a yellow header 'KSU Elective Recommendation System' and navigation links for 'Recommendations', 'Career Planner', 'Academic Data', 'More', and 'Logout'. The main content is divided into three columns: 'My Info', 'My Recommendations', and 'My Careers'. 'My Info' displays user details for Michael Pettigrew. 'My Recommendations' lists three courses: SWE3633: Software Architecture and Design, CS4305: Software Engineering, and SWE4743: Object-Oriented Development. 'My Careers' lists three career paths: Software Engineer, Senior UX Designer, and Full Stack Developer. The interface is clean but lacks interactive elements for filtering or generating recommendations.

After

The 'After' screenshot shows an updated version of the web application with a white header 'KINNEBREW STATE UNIVERSITY NAV YOUR ED' and navigation links for 'Recommendations', 'Career Planner', 'Academic Data', 'More', and 'Logout'. The 'My Info' section now displays details for Mitch Pettigrew. The 'My Recommendations' section is more interactive, featuring a 'Career Goal' dropdown set to 'Aerospace Engineer', 'Allowed Subjects' buttons for 'SWE', 'CS', and 'IT', and a 'GENERATE RECOMMENDATIONS' button. Below this, a 'Total Recommendations: 5!' summary is shown. The main content area displays two recommended courses: 'CS4305: Software Engineering' with a score of 91% and 'SWE4713: SWE Application Domain' with a score of 87%. A 'Saved Careers' sidebar on the right shows 'Full Stack Developer' and 'Principal Software Engineer' with 'CAREER PLANNER SEARCH' and 'REMOVE FROM LIST' buttons. The footer includes the Kinnebrew State University logo and 'Copyright © 2024'.

# Career Planner Screen

Before

KSU Elective Recommendation System

Recommendations Career Planner Academic Data More Logout

### Career-Interest Based Elective Course Recommendation

Software Engineer

SAVE TO MY CAREERS

**Associated Skill: Linux**  
Courses which may support this skill:  
**Linux/Unix Administration (IT4423)**  
This course introduces Linux/Unix operating systems. Topics include system administration file systems and access permissions regular expression common tools and utilities and network service configurations. Lessons will be enhanced using hands-on exercises.  
**Linux/Unix Administration (CYBR4423)**  
This course introduces Linux/Unix operating systems. Topics include system administration file systems and access permissions regular expression common tools and utilities and network service configurations. Lessons will be enhanced using hands-on exercises.

**Associated Skill: SQL**  
Courses which may support this skill:  
**Big Data System Administration (IT4733)**  
This course introduces contemporary distributed big data platforms and database systems. Topics include big data computing paradigms big data platform architectures and administration and big data database concepts and administration.  
**Database Systems (CSE3153)**  
The topics in this course span from a review of the traditional file processing systems to database management systems. Topics include files systems and file processing logic planning and major phases of database development: analysis design and implementation. Labs use an SQL based database product such.

App running React and Darty UI

After

KENNESAW STATE UNIVERSITY  
NAV YOUR ED

Recommendations Career Planner Academic Data More Logout

Software Engineer

Associated Skill: Linux

Courses which may support this skill:

**Linux/Unix Administration (IT4423)**  
This course introduces Linux/Unix operating systems. Topics include system administration file systems and access permissions regular expression common tools and utilities and network service configurations. Lessons will be enhanced using hands-on exercises.

**Linux/Unix Administration (CYBR4423)**  
This course introduces Linux/Unix operating systems. Topics include system administration file systems and access permissions regular expression common tools and utilities and network service configurations. Lessons will be enhanced using hands-on exercises.

Associated Skill: SQL

### Saved Careers

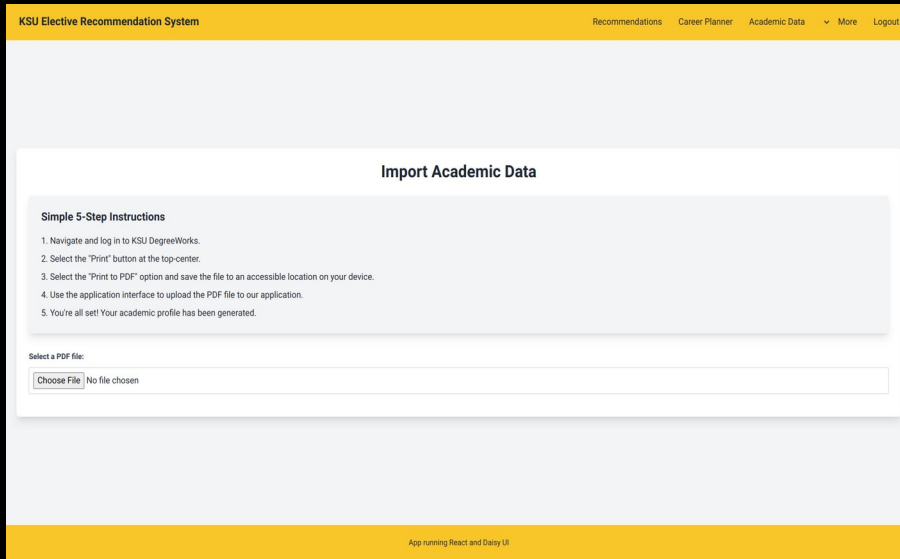
**Full Stack Developer**  
Potential Supporting Courses:  
IT4423, CYBR4423, IT4403

**Principal Software Engineer**  
Potential Supporting Courses:  
CS4722, CS4722, IT4403, SWE4743, SWE4743, SWE3683, CS4682, CS4612.

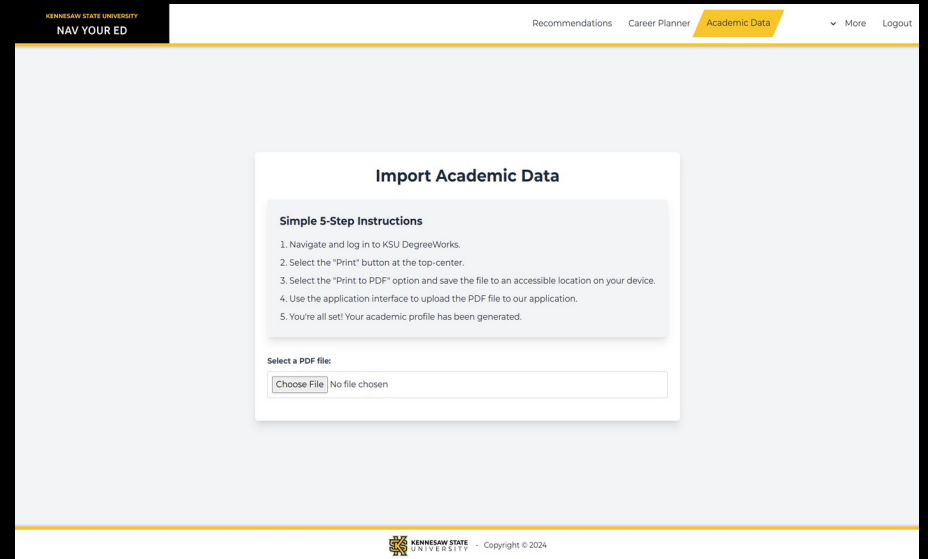
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# PDF Import Screen

Before



After



# About Screen

## Before

KSU Elective Recommendation System

Recommendations Career Planner Academic Data More Logout

### About

The purpose of this application is to aid students in choosing the right courses for their degree based on the relevancy they have to their desired career. This application allows a student to choose multiple career paths, each suggesting different course options to not only satisfy the student's degree requirements, but also to introduce and assimilate the student with concepts they will be working with in the professional world.

This application can also be used by faculty members to better assist students in not only planning their classes in accordance to their degree requirements, but to also help them in planning their eventual future in the professional world.

The Kennesaw State University Course Recommendation System is developed and maintained by James Harris with input from a small handful of other students. The system is overseen by Professor Parizi in accordance with Professor Debozorgi.

[Check out this project on GitHub](#)

App running React and Daisy UI

## After

KENNESAW STATE UNIVERSITY  
NAV YOUR ED

Recommendations Career Planner Academic Data More Logout

### About

**Purpose:** This application helps students select the most suitable courses to achieve their desired career goals. It leverages student data, such as career interests, past performance, and strengths/gaps, along with algorithms to provide personalized course recommendations.

**How it works:**

**Student Input:** Students provide their career goals and other relevant information.

- **Data-Driven Analysis:** The application uses algorithms to analyze student data, prioritizing courses that align with desired career paths, address skill gaps, and build on strengths.
- **Tailored Recommendations:** Students receive intuitive, personalized course recommendations that support both their degree requirements and professional development.
- **Faculty Support:** Faculty members can also use this tool to better advise students on course selection for both academic and career-oriented success.

**Benefits:**

- **Empowers students** to make informed course choices aligned with their career aspirations.
- **Supports faculty** in providing effective guidance on academic pathways and career preparation. [pen\\_spark](#)

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