

Team CareerNet



CARTER TAYLOR

Role: Team Lead, Customer Communicator

MCKENZIE CLARK

Role: Architect

RAN LI

Role : Release Manager

CARMEN MONTALVO

Role: Recorder

CS Faculty Mentor:

Han Peng

Design Review 2

Clients



**José R. Díaz
Aquino**

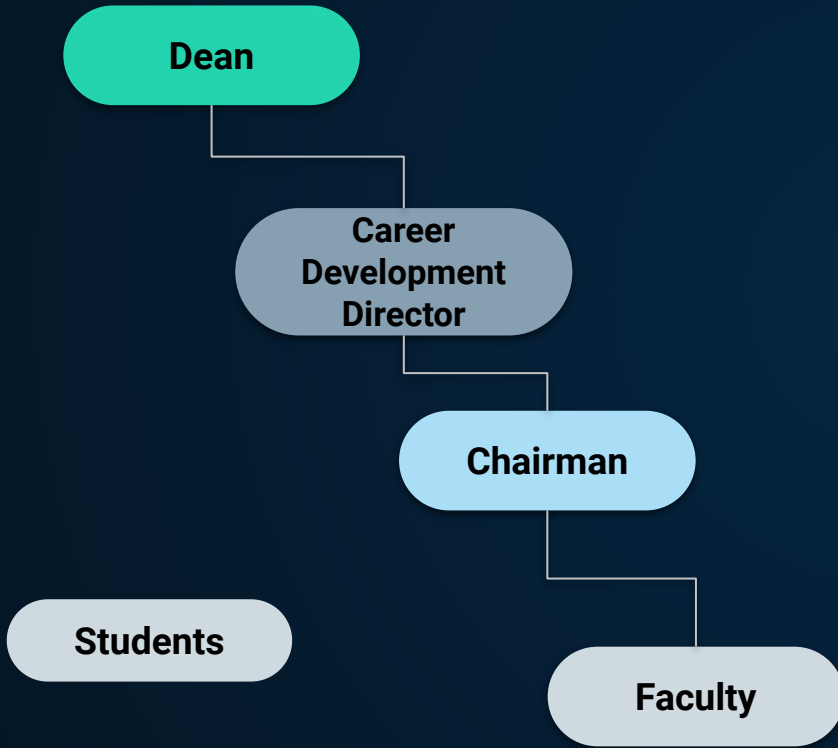


Dr. Andy Wang

Mr. José R. Díaz Aquino, Program
Director, CEIAS Career Development

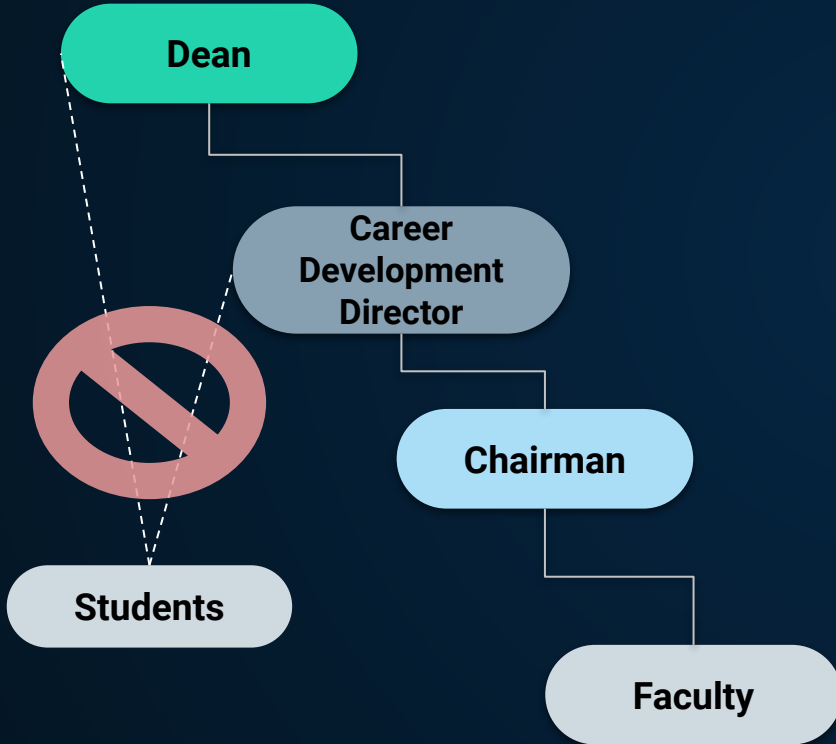
Dr. Andy Wang, Dean and Professor
College of Engineering, Informatics,
and Applied Sciences

Workflow



- Dean - head of a school or administration division in a university
- Career Development Director - Directs and manages the university's career services
- Chairman of the Board - aids in defining the board's responsibilities and setting the strategic direction for the institution
- Faculty - professors and advisors
- **Goal:** By 2026, all students should have external learning experiences (work in something related to their major outside of the classroom).

Problem



- Disconnect between the students and the clients
- Timing of data collection
- Lack of information on students career success outside of the classroom
- No data visualization

Solution

Web Application



DATA RETRIEVAL

Data retrieval, normalization, and storing



SECURE LOGIN

A secure login verification with user groups



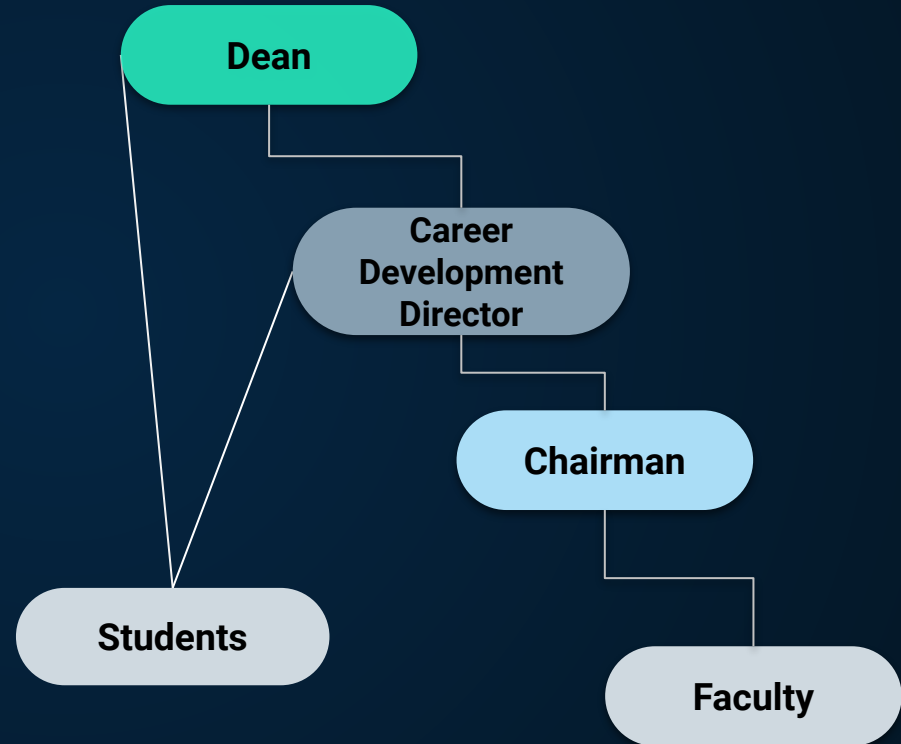
DATA VISUALIZATION

Easily filtered data graphs for users to examine



ACCESSIBILITY

Easy user interface to find information at glance



Key User Requirements Reminder

Efficient Student Data Fetcher

Efficiently grab and store fetch Student data from LinkedIn, and imported CSVs

01



Data Visualization

Visualize and filter stored student data for analysis

02



Searchable Student Profiles

Unique profiles for each stored student that shows notable professional milestones

03



User Authentication

Only provide access for authorized users

04



Technologies Implemented



DATA RETRIEVAL

Data retrieval, normalization, and storing

- LinkedIn API
- Express JS
- Python
- MySQL



SECURE LOGIN

A secure login verification with user groups

- Express JS
- JWT Tokens
- NAU CAS



DATA VISUALIZATION

Easily filtered data graphs for users to examine

- React Recharts
- React Chrono (timelines)

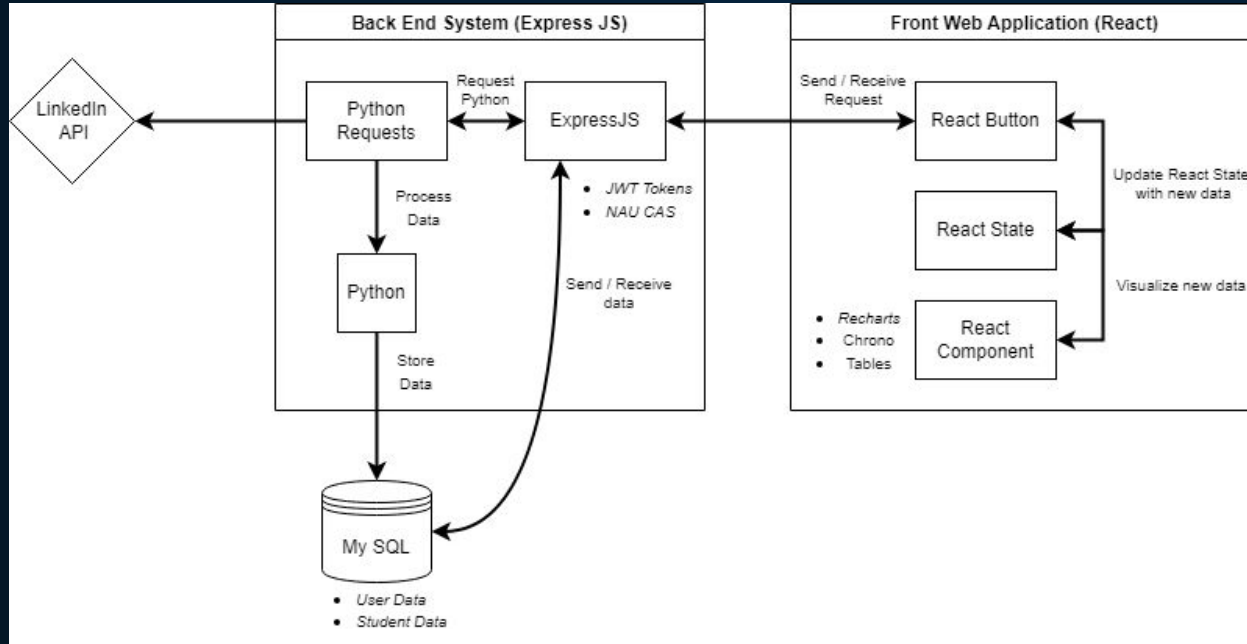


ACCESSIBILITY

Easy user interface to find information at glance

- React Components
- CSS
- Bootstrap

Architecture



Front Web Application

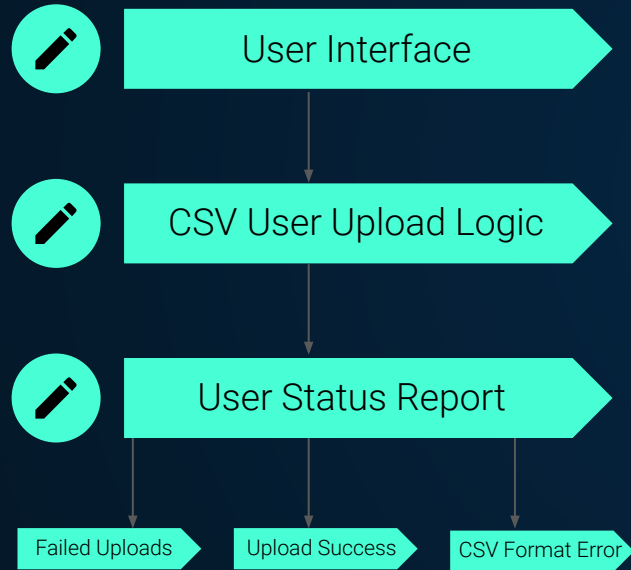
- Data Visualization
- Accessibility

Back End System

- Data Retrieval
- Secure Login

Deep Dive: CSV Upload

Functional Requirements



CSV Upload

Upload a CSV file with from from either with either raw new student data, Handshake, or Student Surveys

Drag CSV file here

nau_id	first_name	last_name	degree	degree_type	graduation_year
Jfw23	John	Williams	Computer Science	Bachelor	2023
Cwt48	Carter	Taylor	Applied Computer Science	Bachelor	2022
Bwd21	Bob	Dylan	Musical Theory	Masters	1969

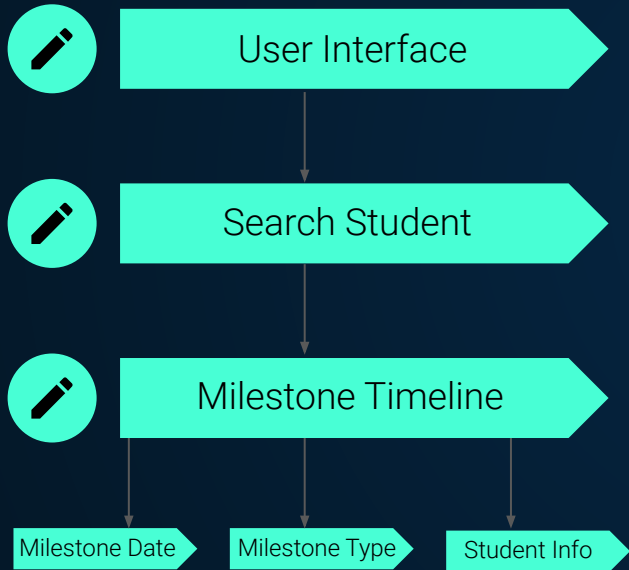
Delete Upload

! No valid CSV provided. Please check the user guide for formatting CSVs for 'New Students' or 'New Milestones'. X

✓ Succeeded in uploading data X

Deep Dive: User Profiles

Functional Requirements



Search a User, and hit Fetch, to grab the students information

Fetch Student Data

First Name	Major	Work Experience	Year	View Student
Carter Taylor	Applied Computer Science	American Express	2022	Click me

My name is Carter Taylor

Majoring in Applied Computer Science

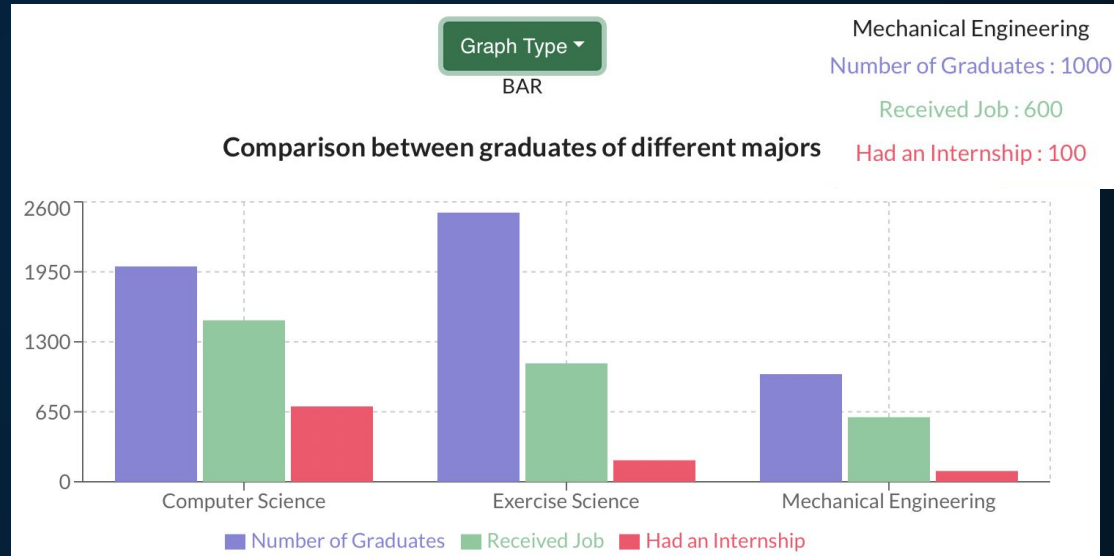
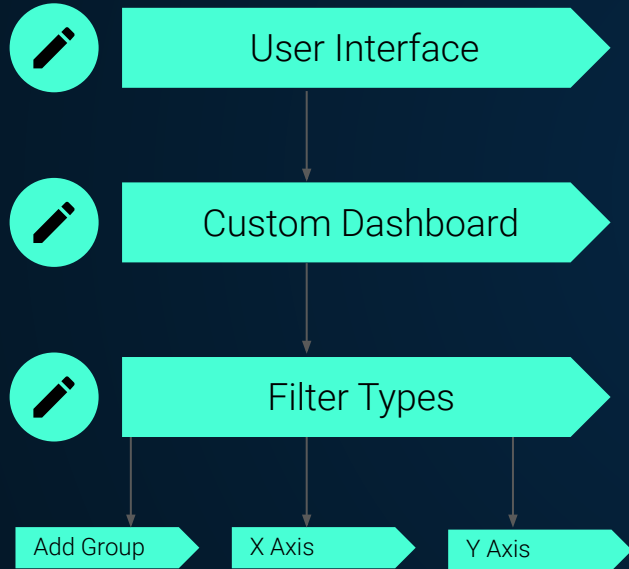
Experience Milestones

A vertical timeline showing experience milestones for Carter Taylor. The milestones are: Full Time Job (Sandwich Maker at Subway, 11/1/2016), Education (Computer Science at Northern Arizona University, 8/1/2018), Full Time Job (Account Specialist at Discover Financial Services, 5/1/2019), Internship (Software Analyst Intern at American Express, 7/1/2020), and Internship (Information Security Development Intern at American Express, 6/1/2021). The timeline is currently in Vertical View.

Horizontal View Vertical View

Deep Dive: User Interface Dashboard

Functional Requirements



Problems And Resolutions



Data Access

- User Interface
- Data Retrieval
- User Authentication
- Data Storage



Performance Requirements

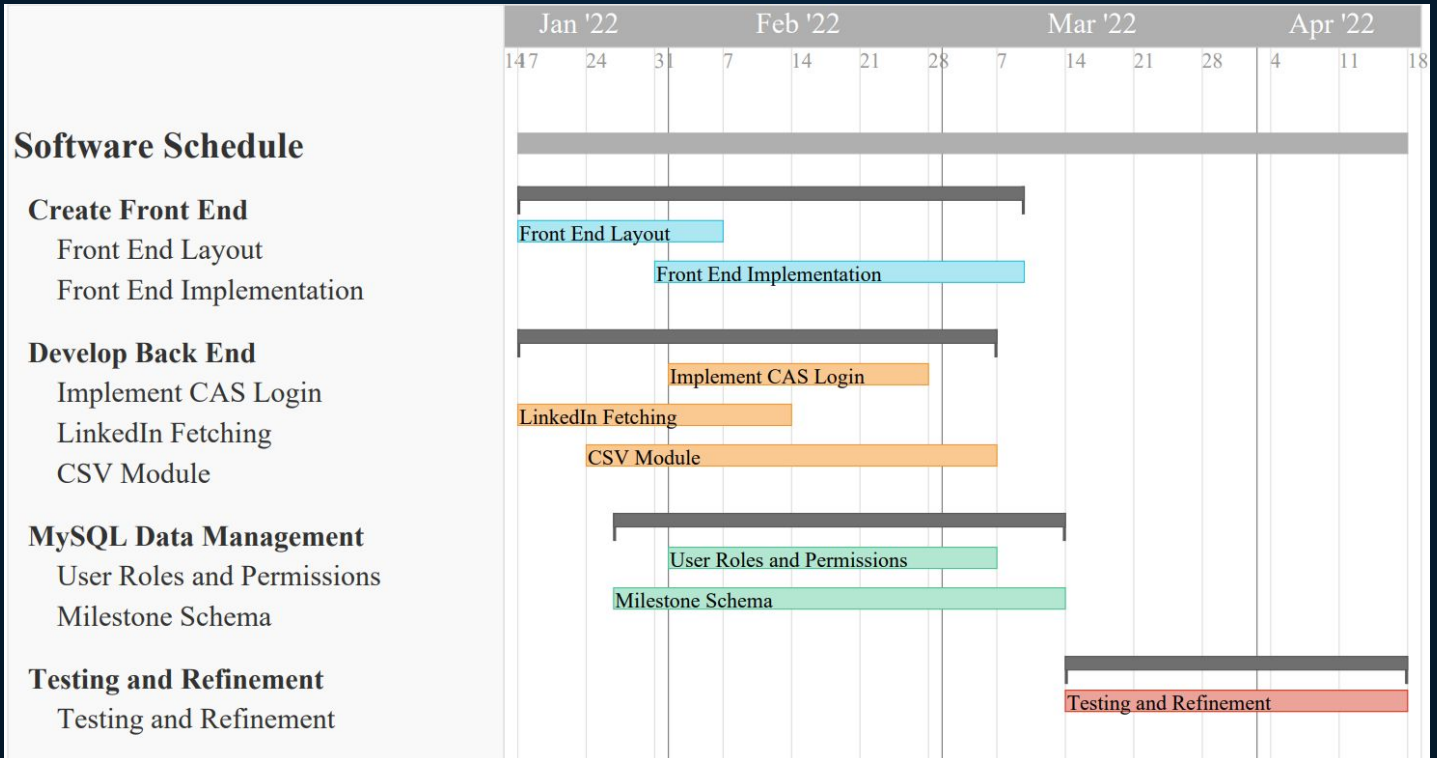
- Responsive User Interface
- Quick Database Retrieval
- Efficient Data Scraping








Back End Organization

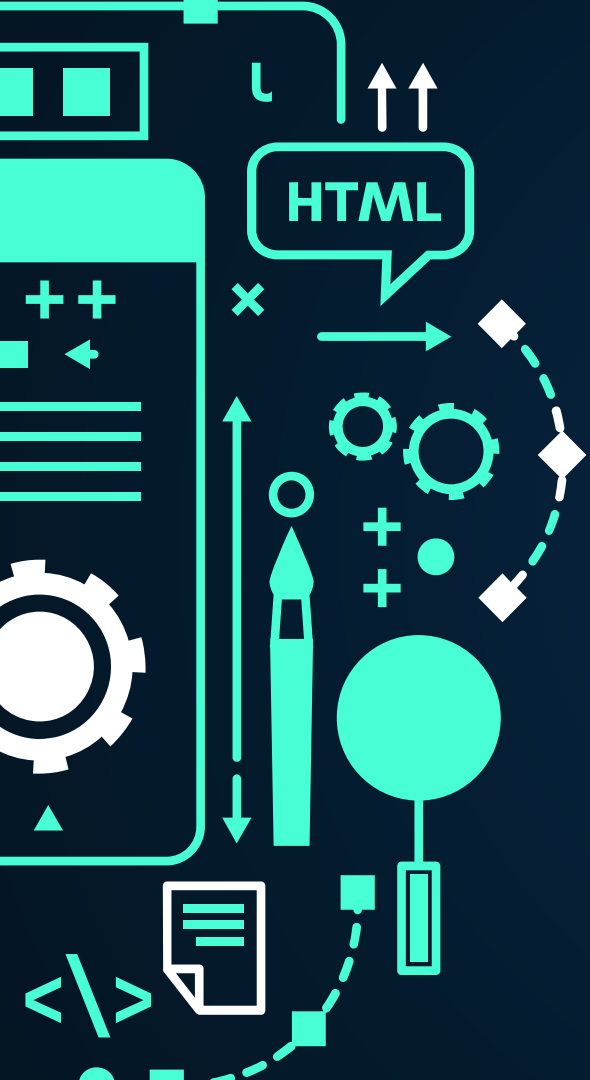
- User Authentication
- Host Server
- Data Visualization
- Desktop Usability

Schedule



Conclusion

- Clients** **01**  Dr. Andy Wang and Mr. José R. Díaz Aquino
- Problem** **02**  Disconnect between student's information and our clients
- Solution** **03**  Web application that retrieves and organizes student information to be displayed to the client
- Key Features** **04**  Data Retrieval | Secure Login | Data Visualization | Accessibility
- Product Impact** **05**  Implement actionable plans based on tracked student success



THANKS!