

NSU CPC WEBSITE

Project Report



Department of Electrical and Computer Engineering

North South University

CSE 299: Junior Project Design

Section: 12

Group Number- 3

Mahir Shahriar Tamim (2131377042)

Sahil Yasar (2122060642)

Shahriar Ratul (2111514642)

Declaration

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Students' names & Signatures

1. Mahir Shahriar Tamim (2131377042)
2. Sahil Yasar (2122060642)
3. Shahriar Ratul (2111514642)

Approval

We, Mahir Shahriar Tamim, Sahil Yasar and Shahriar Ratul, members of CSE 299 (Junior Project Design) from the Electrical and Computer Engineering department of **North South University**; have worked on the project titled "**NSU CPC Website**" under the supervision of Rifat Ahmed Hassan (RIH) as a partial fulfillment of the requirement for the degree of Bachelors of Science in Engineering and has been accepted as satisfactory.

Supervisor's Signature

.....

Department of Electrical Engineering & Computer Science North South University
Dhaka, Bangladesh.

Acknowledgement

By mercy of the Almighty we have completed our junior design project entitled “NSU CPC Website”.

Foremost, we would like to express our sincere gratitude to our advisor Rifat Ahmed Hassan (RIH) for his continuous support in our project progress throughout the whole CSE 299 course, for his patience, motivation, enthusiasm, and immense knowledge. His guidance helped us in all the time of research, writing and completing of this project.

Our sincere thanks also go to North South University, Dhaka, Bangladesh for providing an opportunity in our curriculum which enabled us to have an industrial level experience as part of our academics.

Last but not the least, we would like to thank our family as their inspiration and guidance kept us focused and motivated.

Abstract

Since 1996, North South University's (NSU) Career Placement Center (CPC) has assisted students in securing fulfilling professions. On the other hand, the current CPC website is out of date, unresponsive, and lacks contemporary functionality. Our project's goal was to redesign the CPC website with the newest online technology, making it a more engaging, effective, and user-friendly platform.

Our group started out to build a website that not only looks modern but also works seamlessly across all devices, from desktops to smartphones. We used the MERN stack, which includes MongoDB for NoSQL data storing, React for creating dynamic front-end with TailwindCSS and DaisyUI components for better responsive designs. The backend is made using Express and Node and altogether this approach ensures that the website is not only visually appealing but also highly functional. Any developers can put their hands into the codebase and upgrade any features they'd like for future enhancements.

Some of the key improvements are the enhanced login functionality with a single large login for every type of users and also the Google Sign-In feature makes it easier and more secure for users to access the site. We also integrated features like generating a custom CV in the website itself. Additionally, admin can disable users and approve posts easily.

The goal of the newly launched NSU CPC website is to serve as a useful tool for businesses, students, and alumni, improving the effectiveness and fun of the job search and placement process. By emphasizing the value of technology in improving career and educational services, our project guarantees that NSU stays at the forefront of professional development and student support.

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1. Overview

1.1 Introduction

Established in 1996, the Career Placement Center (CPC) at North South University (NSU) facilitates the transfer of students into the professional world by providing job placements, internships, seminars, workshops, and mentorship from alumni. But the present CPC website is out of date and devoid of elements that are necessary. The website will be redesigned with this project to make it more accessible, practical, and user-friendly.

1.2 Project Definition

Our project involves remaking the NSU CPC website using modern web technologies. The new website will feature latest design patterns, responsive layout, and interactive elements to enhance user engagement. It will also include a secure login system with Google Sign-In, aiming for efficiency and ease of use.

1.3 Motivation

The main motivation is to provide a modern, efficient, and reliable platform for NSU students and employers. The outdated website limits its effectiveness. By redesigning it, we aim to improve the user experience, streamline administrative processes, and ensure the CPC remains a valuable career resource.

1.4 Project Goal

Our goal is to build a responsive, intuitive, and secure CPC website with Google Sign-In. Our goal is to enhance the user experience and make content management easier for CPC staff. The new website should be an essential tool for students, alumni, and employers. And the website is built with a modern stack so that any future developer can easily make any upgrade they want.

1.5 Summary

The project to remake the NSU CPC website focuses on modernization and improvement. By leveraging the latest web technologies and user-friendly features, we aim to create a website that better serves students, alumni, and employers, and for the future developers to easily incorporate any features they want, ensuring the CPC remains a crucial resource for career development at NSU.

2. Literature Review

2.1 Evolution of Career Placement Services

With the development of sophisticated online platforms, career services have moved from bulletin boards and paper-based job ads to more efficient and accessible online platforms. The growing significance of technology in education is reflected in this digital revolution.

2.2 Importance of User Experience (UX) in Career Services

Effective career placement websites must have a user-centered design. Key principles include simplicity, consistency, and accessibility, ensuring users can easily navigate and find information. These guidelines improve user involvement and pleasure.

2.3 Integration of Modern Web Technologies

The MERN stack—MongoDB, Express, React, and Node.js—when integrated, greatly enhances the functionality and speed of websites. This cutting-edge technological stack makes it possible to create a dynamic, high-performing online application that improves user engagement and experience.

2.4 Security and Authentication

Protecting user data requires the use of secure authentication methods like Google Sign-In and JWT (JSON Web Tokens). These technologies ensure strong data protection protocols while offering users a convenient and safe way to visit the website.

2.5 Impact of Enhanced Digital Services on Career Outcomes

Students' professional success can be markedly improved by enhanced digital services. The availability of all-inclusive virtual career services boosts the probability of fruitful employment placements and professional growth by promoting enhanced employer-student communication, expediting the application procedure, and offering invaluable assets.

3. Existing Systems and solution adopted

3.1 Introduction

The NSU Career Placement Center (CPC) website connects students with potential employers but has usability and functionality issues. This section reviews the existing system, proposed improvements, and adopted solutions.

3.2 Existing Solutions

The current website uses basic CSS and PHP, leading to several issues:

- **Outdated Design:** Lacks visual appeal and intuitive user experience.
- **Limited Responsiveness:** Poor functionality across different devices.
- **Basic Functionality:** Lacks advanced features of modern job portals.
- **Maintenance Challenges:** Difficult to update due to outdated technologies.

3.3 Proposed Solution

To address these issues, we proposed:

- **Modern Design:** User-friendly dashboards focusing on UX/UI principles.
- **Responsive Layout:** Seamless experience across all devices.
- **Enhanced Functionality:** Secure authentication, dynamic job listings, and user-friendly dashboards.
- **Improved Maintainability:** Robust technology stack for easier updates.

3.4 Solution adopted and reasons

The new NSU CPC website uses:

- **Front-End:** React.js with Tailwind CSS and Daisy UI for a clean, responsive design.
- **Back-End:** Node.js and Express.js for scalability and efficient processing. MongoDB for flexible and scalable data storage.
- **Authentication:** Google Sign-In and JWT for secure and convenient user access.
- **Additional Features:** Infinite scroll and online payment integration.

Reasons for Adoption:

- **Enhanced User Experience:** Modern, responsive, and intuitive interface.
- **Scalability and Performance:** Efficient handling of high traffic and complex operations.
- **Flexibility and Maintainability:** Easy maintenance and extension with new features.
- **Security:** Secure handling of user data with JWT and Google Sign-In.

3.5 Summary

The previous NSU CPC website, built with basic CSS and PHP, had limited functionality and responsiveness. The new solution uses modern technologies like React.js, Tailwind CSS, Node.js, Express.js, and MongoDB to improve user experience, scalability, maintainability, and

security. The revamped website is now a modern, efficient, and user-friendly platform for students, alumni, and employers.

4. Technical Description

4.1 System Architecture

4.1.1 Overview of System Components

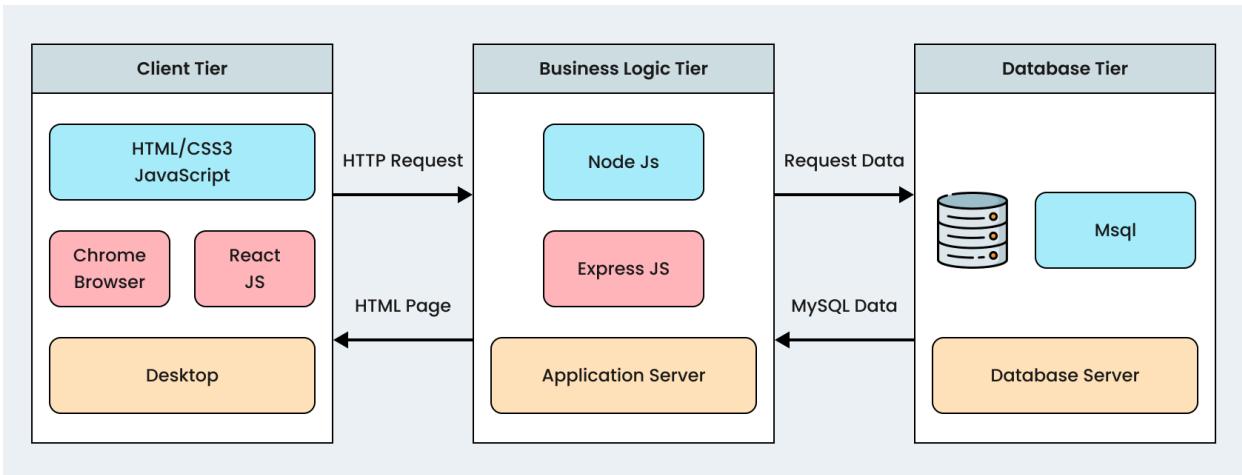
The revamped NSU CPC website has several key components for a seamless user experience:

- **Front-End:** Built with React.js for dynamic user interfaces, styled using Tailwind CSS and Daisy UI for a modern, responsive design.
- **Back-End:** Developed with Node.js and Express.js to handle server-side logic and API requests.
- **Database:** Utilizes MongoDB for flexible and scalable data storage.
- **Authentication:** Implements secure authentication with Google Sign-In and JWT (JSON Web Tokens) for secure, convenient access.
- **APIs:** Uses internal and third-party APIs for data exchange and functionalities like CV and image uploading.

4.1.2 Client-Server Architecture

The NSU CPC website follows a client-server architecture, ensuring efficient communication and data processing between the front-end (client) and back-end (server):

- **Client:** The React.js front-end interacts with users, sending HTTP requests to fetch or submit data, and dynamically updating the UI based on server responses.
- **Server:** The Node.js and Express.js back-end processes client requests, performs operations like database queries, and sends appropriate responses.
- **Communication:** The client and server communicate via RESTful APIs, handling user authentication, job postings, and application management.

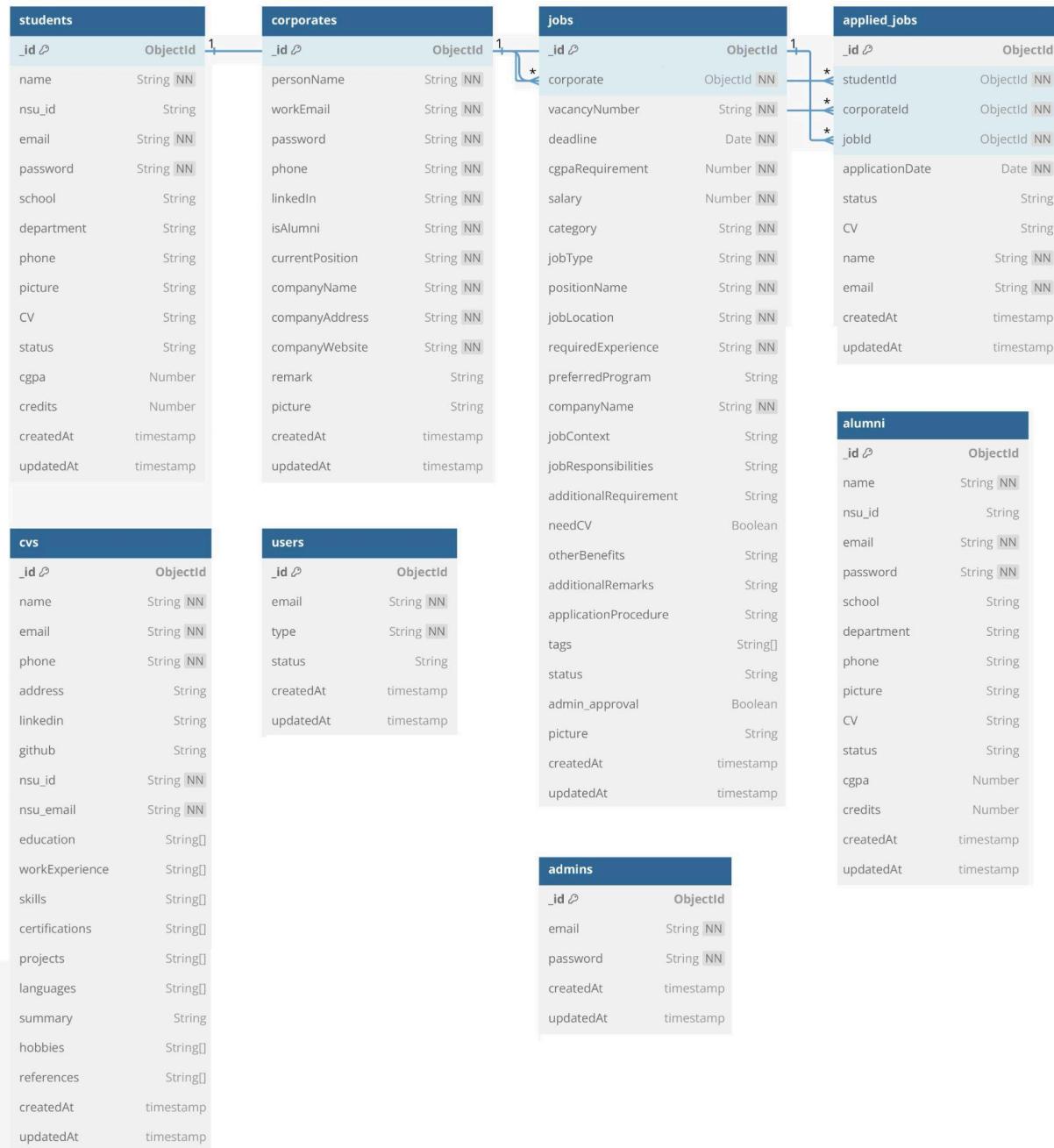


4.1.2 Database Design

The MongoDB database is structured to support the functionalities of the NSU CPC website, ensuring efficient data storage, retrieval, and management:

Database Choice: MongoDB was selected due to its flexibility, scalability, and ability to handle large volumes of unstructured data. Its document-oriented nature is ideal for evolving project requirements.

Database Schema:

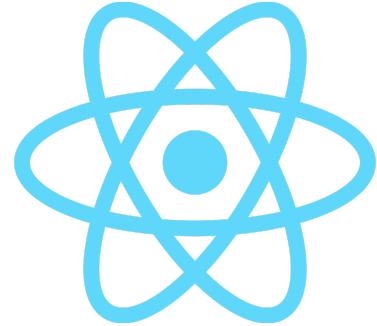


4.2 Technology Stack

4.2.1 Front-End Technologies

- **React.js**

React.js, developed by Facebook, is a JavaScript library for building user interfaces, especially single-page applications. It allows for creating reusable UI components, efficient state management, and quick updates via its virtual DOM, enhancing performance for dynamic web applications.



- **Tailwind CSS**

Tailwind CSS is a utility-first CSS framework with predefined classes for responsive and modern web designs. It promotes a "utility-first" approach, allowing developers to directly apply classes to HTML elements for layout, spacing, and colors, ensuring consistent and efficient styling.



- **Daisy UI**

Daisy UI is a component library built on Tailwind CSS, offering customizable, ready-made UI components. It follows Tailwind's utility-first approach, simplifying the creation of consistent and visually appealing interfaces.



daisyUI

4.2.2 Back-End Technologies



- **Node.js**

Node.js is a server-side runtime environment that executes JavaScript code, built on Google's V8 engine. Known for its event-driven, non-blocking I/O model, Node.js is highly efficient and scalable, making it ideal for building fast, scalable network applications like web servers and APIs.

- **Express.js**

Express.js is a minimal and flexible web framework for Node.js, offering features like routing, middleware support, and HTTP utilities. It simplifies building scalable and maintainable server-side applications, commonly used for developing RESTful APIs and web applications due to its simplicity and flexibility.

4.2.3 Database

- **MongoDB Atlas**



MongoDB Atlas is a fully managed cloud database service that offers:

- **Scalability:** Automatically adjusts resources for varying loads.
- **High Availability:** Built-in redundancy and failover minimize downtime.
- **Performance Optimization:** Advanced indexing and real-time monitoring ensure optimal performance.
- **Security:** Provides encryption, access controls, and auditing.
- **Ease of Management:** Automated backups and monitoring reduce administrative burden.
- **Global Distribution:** Ensures low-latency access for users worldwide.

MongoDB Atlas allowed the project team to focus on development while ensuring robust, scalable, and secure database management.

4.2.4 Firebase



Firebase, developed by Google, was used in this project to store user CVs and profile images:

- **Storage:** Firebase Cloud Storage securely stores and serves user-generated content like CVs and profile pictures.
- **Integration:** Easily integrates with the application, allowing users to upload CVs and images directly through the website.
- **Security:** Ensures secure storage and accessibility with proper access controls.

Firebase simplifies media file management, ensuring secure and efficient storage and access.

4.3 User Interface (UI) Design

4.3.1 Design Principles

For the UI, we adhered to minimalistic design principles, which we believed would best suit the modern and professional aesthetic of the new CPC website. We employed a limited color palette and consistently reused elements such as the horizontal navbar and footer to ensure a cohesive look and feel. Throughout the design process, we experimented with various design principles, including glassmorphism, neomorphism, the bento grid, and the rule of thirds, selecting those that best complemented our desired aesthetic. The predominant use of various shades of blue reflects the NSU brand, while complementary colors enhance UI intuitiveness. By modularizing the webpages as much as possible without sacrificing utility, we simplified the codebase, making it easier to reuse, maintain, and upgrade.

4.3.2 Responsive Layout

We ensured that all webpages are responsive across different screen sizes. On smaller screens, such as smartphones, the horizontal navbar is designed to disappear, and other elements dynamically adjust their sizes to maintain a consistent and user-friendly design on all devices.

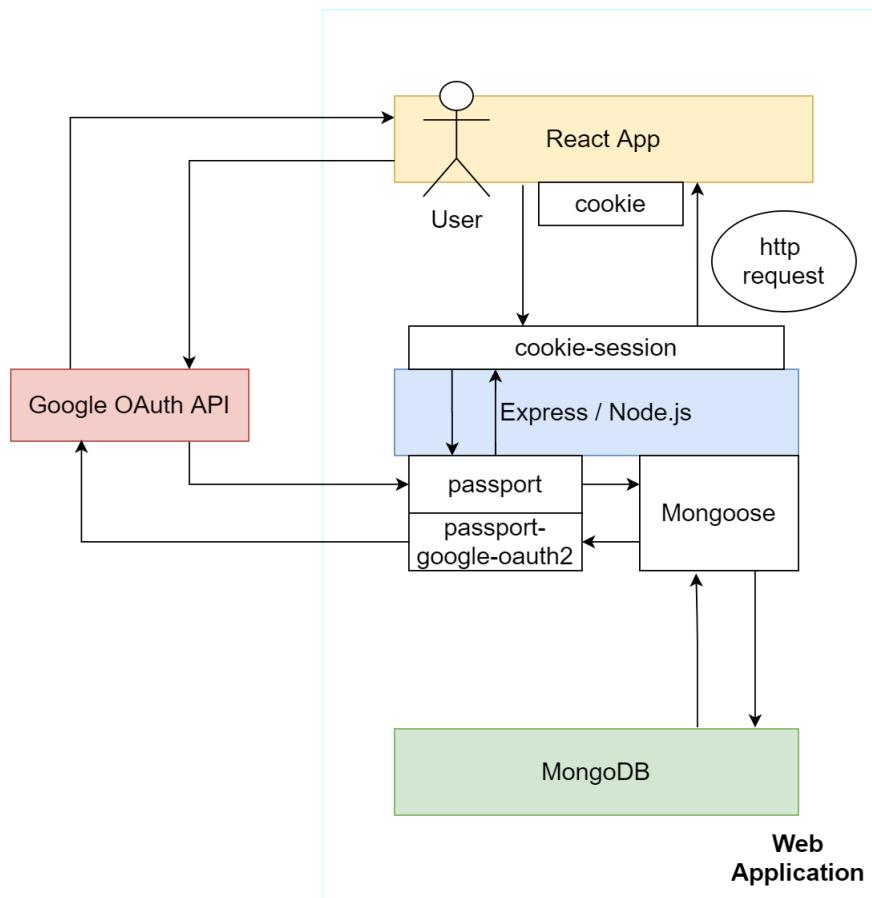
4.3.3 User Experience (UX) Considerations

To maximize the user experience, we made numerous adjustments to each webpage after its initial creation. Key considerations included the use of relevant colors, enhanced contrast, an intuitive and simplified design, and helpful navigation messages. These elements were rigorously tested and refined to ensure the highest level of user satisfaction and ease of use.

4.4 Authentication and Security

4.4.1 Google Sign-In Integration with Passport.js

Google Sign-In offers a secure and user-friendly way for users to authenticate using their Google accounts. We integrated Google Sign-In with Passport.js, a popular authentication middleware for Node.js, to streamline the process and enhance security.



User Authentication Process

1. **User Login:** Initiated from the React app, redirecting to Google OAuth API.
2. **OAuth Flow:** Google authenticates the user and redirects back to the Node.js server with authentication details.
3. **Session Management:** Passport.js handles the response, creates a session, and stores data in a cookie.
4. **Data Handling:** The Node.js server, using Mongoose, interacts with MongoDB for user data storage or retrieval.

5. **Secure Communication:** All data exchanges occur over HTTPS.

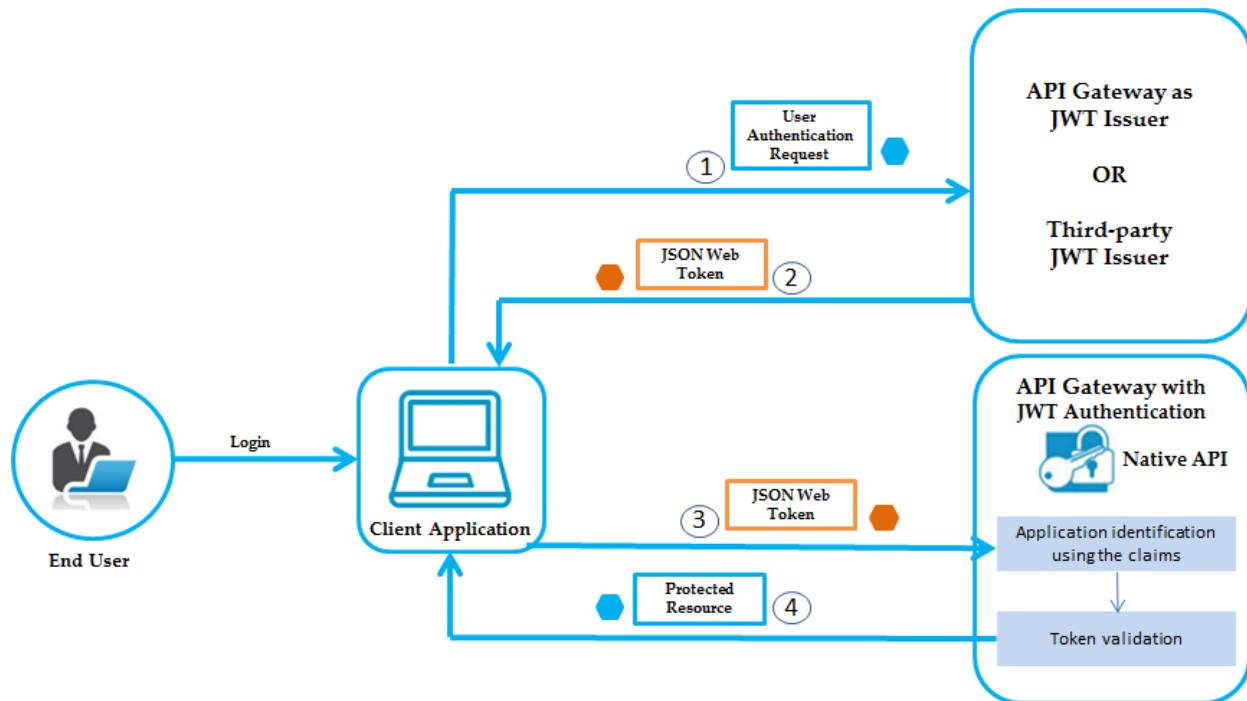
Benefits:

- **Enhanced Security:** Google authentication reduces the need to manage passwords.
- **Ease of Use:** Users log in with their existing Google accounts.
- **Scalability:** Supports many concurrent users with minimal performance impact.

Using Passport.js for Google Sign-In ensures seamless and secure authentication, enhancing the user experience and security of the NSU CPC website.

4.4.2 JWT Token Verification

JWT (JSON Web Tokens) provide a secure method for authenticating users and protecting resources on the NSU CPC website.



User Authentication Request:

- The user logs in via the React app.
- The app sends an authentication request to the Node.js server.

JWT Issuance:

- The server verifies user credentials.
- Upon successful authentication, a JWT is generated and sent to the client.

Storing and Using JWT:

- The client stores the JWT (in localStorage or cookies).
- For protected requests, the JWT is included in request headers.

JWT Verification:

- The server verifies the JWT's signature and claims.
- Valid JWTs grant access to protected resources; invalid tokens deny access.

Benefits for NSU CPC Website:

- **Stateless:** Simplifies scaling with no need for server-side session storage.
- **Secure:** Ensures data integrity and confidentiality.
- **Efficient:** Compact and easily transmitted.
- **Interoperable:** Supported across various platforms.

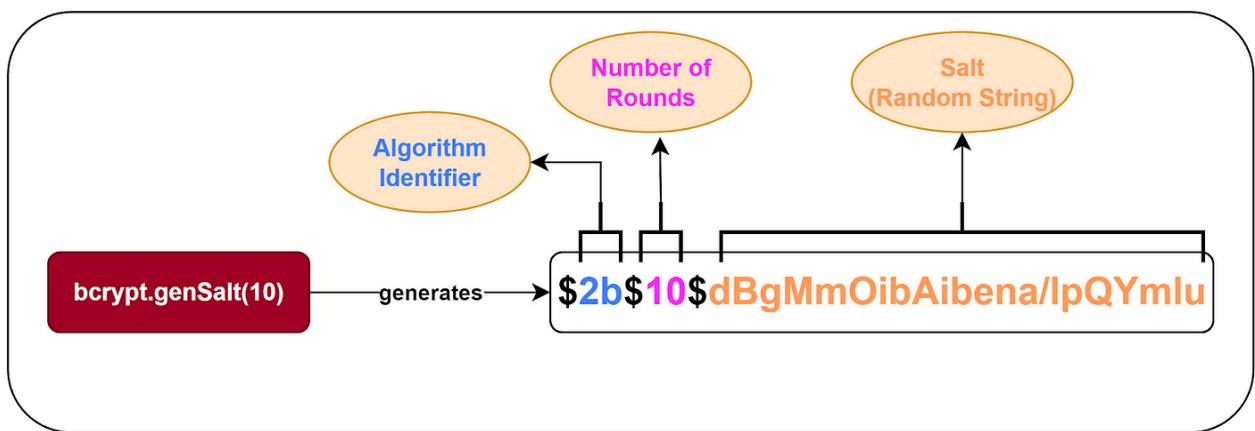
JWT enhances security, performance, and scalability for user authentication on the NSU CPC website.

4.4.3 Data Encryption and Security Measures

Ensuring user data security is crucial for the NSU CPC website. Key measures include:

CORS (Cross-Origin Resource Sharing)

- **Purpose:** Controls requests from different origins, preventing unauthorized domain access.
- **Implementation:** Sets CORS policies to restrict communication to trusted sources only.



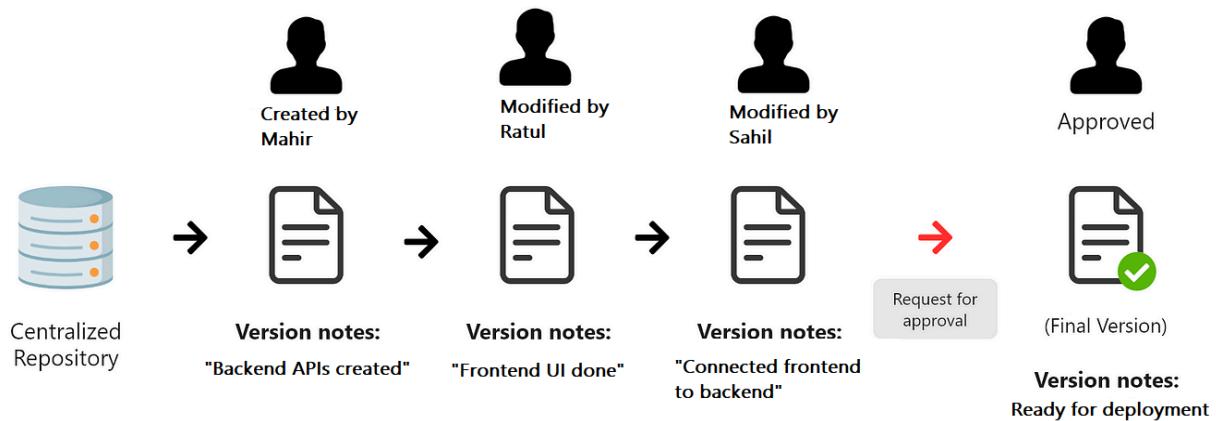
bcrypt Hashing:

Purpose: bcrypt hashes user passwords to securely store them in the database.

Implementation: When a user creates or changes a password, bcrypt generates a unique hash with a salt for added security. During login, bcrypt compares the entered password with the stored hash to verify the user's identity.

These measures protect user data, enhancing the overall security of the NSU CPC website.

4.5 Version Control System



For version control, we used GitHub, managing two separate repositories: one for the front-end and one for the back-end. This approach allowed for organized and efficient development, enabling independent updates and collaboration on both parts of the project while maintaining a clear separation of concerns.

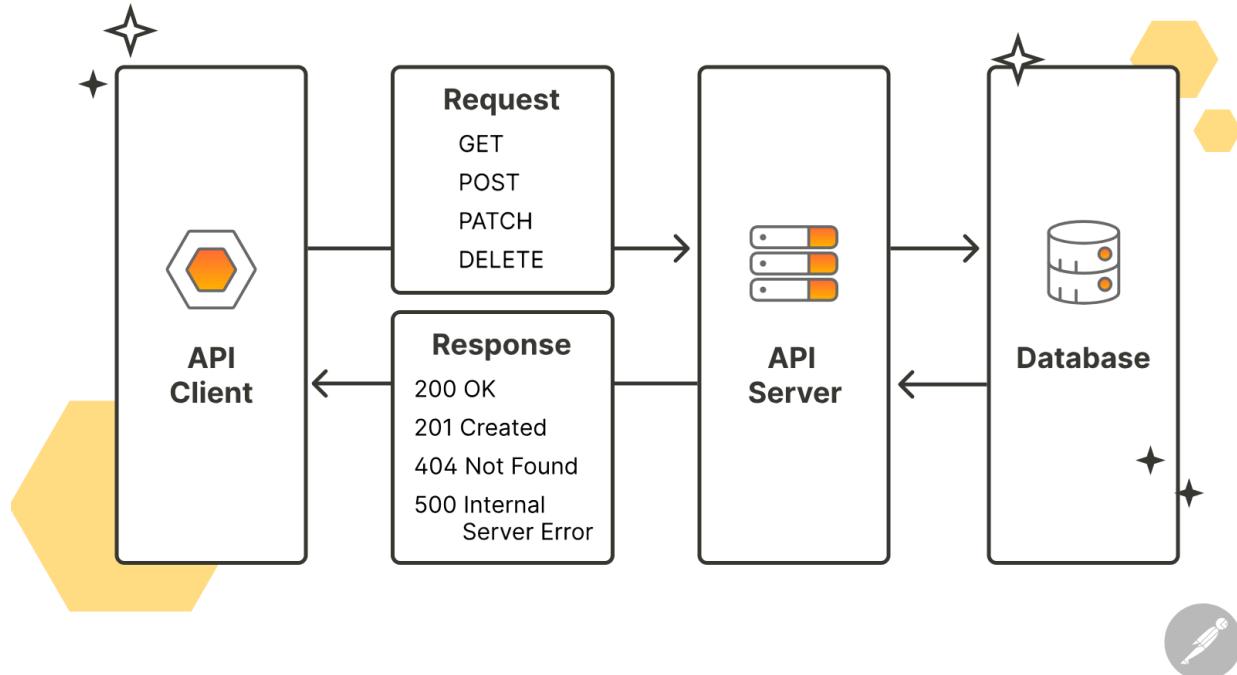
Environment Variables:

‘.env’ Files: We used .env files to manage environment-specific configurations securely. These files stored sensitive information such as API keys, database URLs, and secret keys.

Usage: Storing configuration details in .env files prevents hardcoding sensitive data, enhancing security and simplifying management for development and production environments. These .env files are included in .gitignore to avoid exposure in repositories.

4.6 Testing and Quality Assurance

Ensuring the quality and reliability of the NSU CPC website was a critical aspect of the development process. The following tools and practices were implemented:



Postman:

- **API Testing:** Used Postman to thoroughly test API endpoints, simulate HTTP requests, and validate responses, ensuring back-end functionality.
- **Data Insertion Testing:** Tested data insertion by sending POST requests with sample data, ensuring proper processing and storage in the database.
- **Manual Testing:** Facilitated manual testing of various scenarios and edge cases, verifying correct application handling.

Additional Quality Assurance Measures:

- **Manual Testing:** Verified UI functionality and overall user experience.
- **Bug Tracking:** Logged and tracked issues using GitHub Issues to prioritize and address them.
- **Code Reviews:** Conducted regular code reviews to maintain quality and catch issues early.

These practices ensured the NSU CPC website was robust, reliable, and deployment-ready.

4.7 Deployment



We used Railway, a PaaS, for seamless deployment and management of the NSU CPC website.

Railway App:

- **Integration with GitHub:** Linked to the backend repository for automatic deployment of the latest code.
- **Environment Variables:** Managed .env files for environment-specific configurations, securely handling sensitive information.

- **Free Usage Period:** Utilized Railway's free \$5 usage period to test backend functionality without additional costs.
- **CORS Verification:** Tested for CORS issues to ensure proper API functionality and seamless front-end to back-end communication.

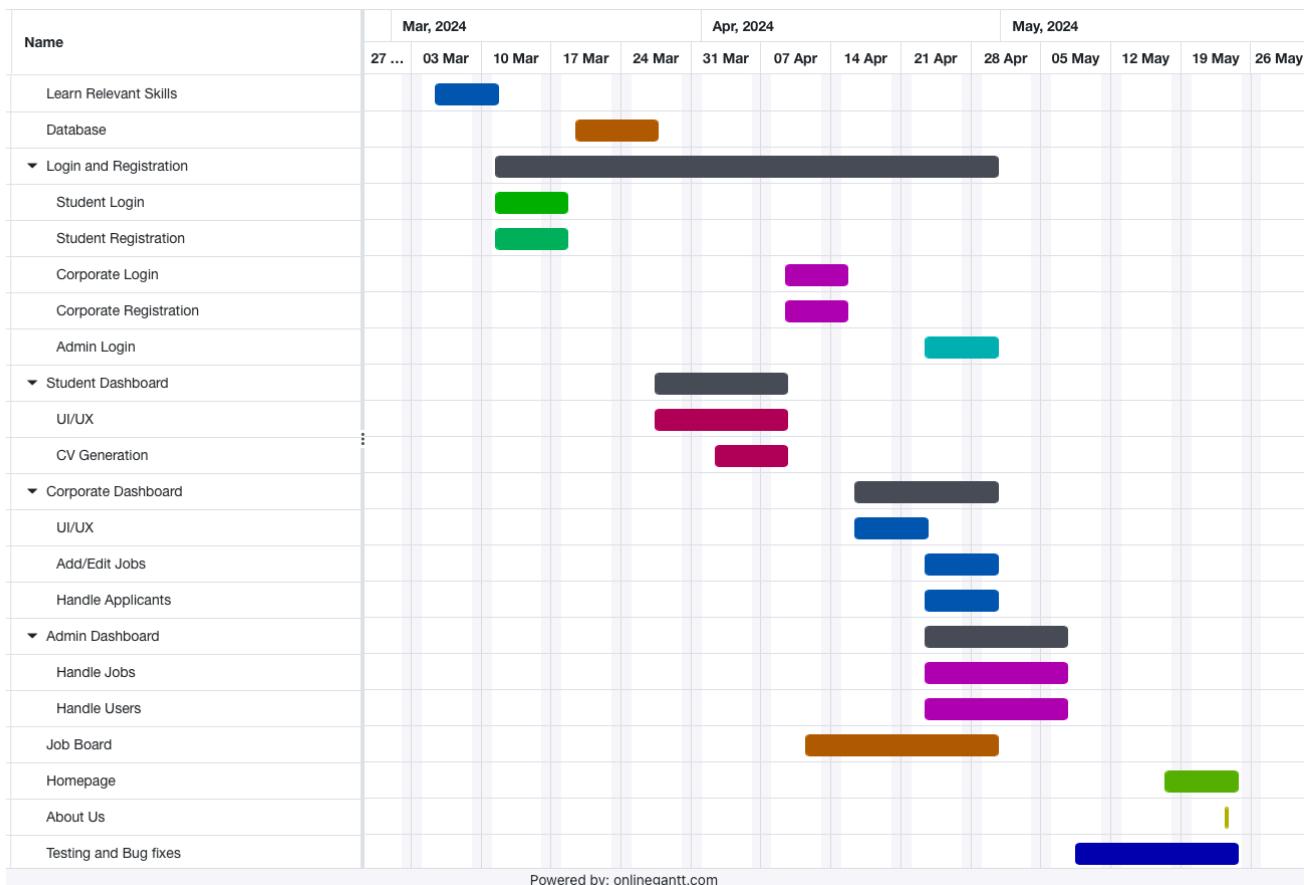
Using Railway allowed us to quickly and efficiently deploy the backend, ensuring it was secure and operational before moving to production.

5. Project Planning

5.1 Weekly progress

Milestone	Tasks	Date
Week-1	Start working on Login and Registration Learning relevant libraries/languages	11-03-2024
Week-2	Work on Login and Registration UI/UX Start working on student dashboard	18-03-2024
Week-3	Worked on database and job portal	26-03-2024
Week-4	Worked on Student Dashboard (frontend and backend) Bug fixes	02-04-2024
Week-5	Finished student dashboard and CV generation	9-4-2024
Week-6	Added corporate login and job board	16-4-2024
Week-7	Worked on job portal backend and UI Started working on corporate Dashboard Finished CPC about us section	23-4-2024
Week-8	Revamped student dashboard Created UI for job board Created Admin dashboard	30-4-2024
Week-9	Slice of life changes and Bug fixes Worked on admin dashboard	7-5-2024
Week-10	Worked on Corporate, Admin, and backend functionality Reworked the UI of many pages Added UI to many pages	14-5-2024
Week-11	Testing and Bug fixes	24-5-2024

5.2 Gantt chart



6. Results and Discussion

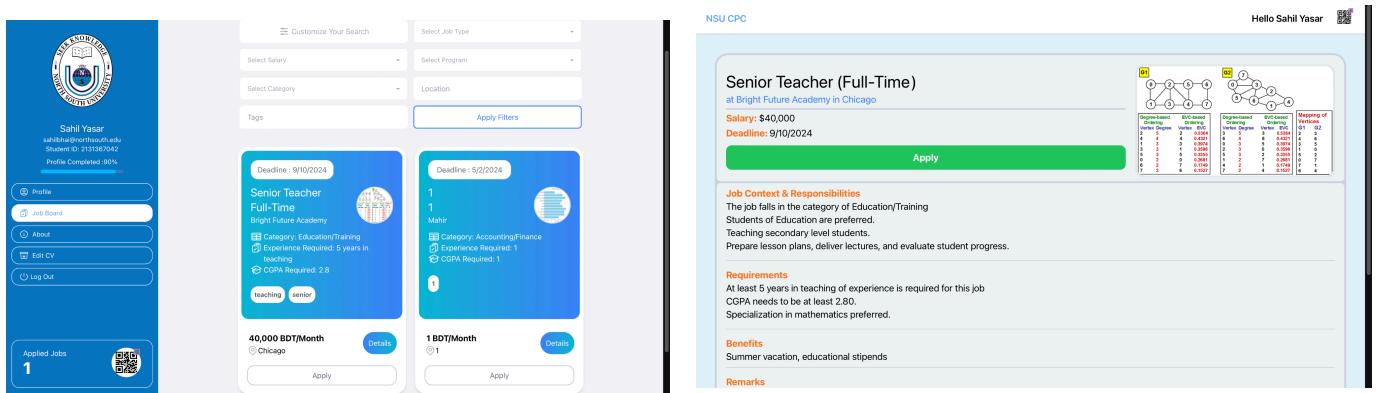
6.1 Key Features and Functionalities

Login and Registration

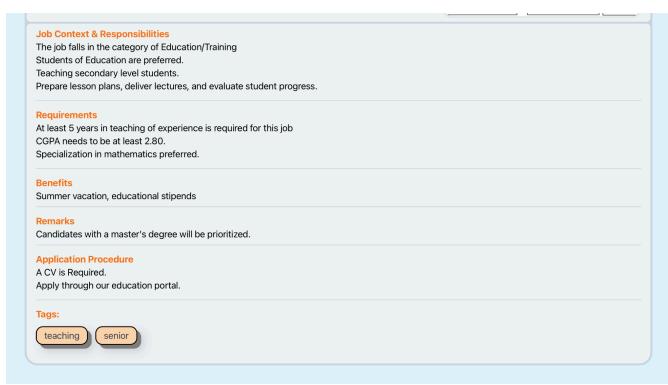


The image shows two screenshots of the NSU-CPC application. On the left is the 'NSU-CPC Login' screen, which features fields for 'Email' and 'Password', a 'Remember for 30 days' checkbox, a 'Forgot password?' link, a 'Sign In' button, and a 'Sign in with Google' button. Below these are links for 'Don't have an account? Register'. On the right is the 'NSU CPC' registration process, showing three steps: 'ACCOUNT INFORMATION' (with a green progress bar), 'PERSONAL DETAILS' (with a blue progress bar), and 'COMPLETE' (with a grey progress bar). The 'PERSONAL DETAILS' step includes fields for 'Full Name', 'Student Status', 'NSU ID', 'NSU Email', and a 'NEXT' button.

Job Board



The image displays three screenshots of the job board and a specific job detail page. On the left is the user profile of 'Sahil Yasar' with a 90% completion rate. The middle screenshot shows the search interface with filters for salary, program, category, location, and tags. It lists two job posts: 'Senior Teacher Full-Time' at Bright Future Academy (40,000 BDT/month) and '1 BDT/Month' (1 job available). The right screenshot shows the detailed view for the 'Senior Teacher (Full-Time)' position at Bright Future Academy in Chicago. It includes the job title, salary (\$40,000), deadline (9/10/2024), and an 'Apply' button. Below the job details are sections for 'Job Context & Responsibilities', 'Requirements', 'Benefits', and 'Remarks', along with two circular graphs showing degree completion and CGPA distribution.



This block contains two screenshots. The top one is a continuation of the job detail page for the 'Senior Teacher' role, showing 'Job Context & Responsibilities', 'Requirements', 'Benefits', 'Remarks', and 'Application Procedure'. The bottom one is a screenshot of the 'Applied Jobs' section, showing a summary of the applied job ('1. Senior Teacher' at Bright Future Academy) and a 'View CV' button.



This block contains two screenshots. The top one is a continuation of the 'Applied Jobs' section, showing a summary of the applied job ('1. Senior Teacher' at Bright Future Academy) and a 'View CV' button. The bottom one is a screenshot of the 'List of Applied Jobs' table, which includes columns for Company, Type, Location, Salary, Applied at, Status, and CV.



Job Application

Upon submission of this form, your application will be sent to the company. We will take your email address from your profile to send you the company.

You have already applied for this job

Your previous application details are as follows:

Application Date: 5/20/2024
Application Status: pending
CV: Provided

[View CV](#)

CV is required for this job

Select your CV:

[Uploaded CV](#) [CV from Database](#)

[Replace Existing Application](#)

Dashboard

Sahil Yasar
sahilhai@northsouth.edu
Student ID: 2131367042
Profile Completed: 90%

[Profile](#)
[Job Board](#)
[About](#)
[Edit CV](#)
[Log Out](#)

Applied Jobs
1

STUDENT

Sahil Yasar
Student ID: 2131367042
Profile Completed: 90%

[Edit Profile](#)
[Download CV](#)

Email: sahilhai@northsouth.edu
Phone: 01677564809
School: SEPS
Department: ECE
Status: Current Student
CGPA: **4.00**
Links: [Facebook](#) [LinkedIn](#) [GitHub](#)

SAHIL YASAR

SUMMARY
Dedicated and proactive business administration student with a strong focus on finance and data analysis, seeking opportunities to apply skills in a dynamic professional environment.

EDUCATION
1.Bachelor of Business Administration 2024
Finance
North South University

EXPERIENCES
2023 - 2023
Innovative Solutions Ltd. (Intern)
Assisted in developing financial strategies and conducted market research to enhance business decisions.

EDUCATION
Bachelor of Business Administration 2024
Finance
North South University

PROJECTS
2023 - 2023
Market Trend Analysis
[https://projectexample.com/market-trend-analysis](#)
Developed a comprehensive market analysis model to predict stock trends and presented findings to senior management.

SKILLS
1. Financial Analysis
2. Strategic Planning
3. Data Analysis
4. Microsoft Excel

CERTIFICATIONS
2023 Certified Financial Analyst - Level 1-CFA Institute

NSU CPC

mahir (Alumni) mahir@gmail.com
Profile Completed: 100%

[Dashboard](#)
[Job Board](#)
[About](#)
[Log Out](#)

List of Posted Jobs

Job Title	Employer	Status	Applicants	Action
HR Coordinator	Bright Future Academy	Not Approved	0	Edit
Senior Teacher	Bright Future Academy	Active	3	Edit
Civil Engineer	Innovative Designs Inc.	Not Approved	0	Edit
Training Coordinator	Bright Future Academy	Not Approved	0	Edit

Edit Profile

Sahil Yasar
sahilhai@northsouth.edu
Student ID: 2131367042
Profile Completed: 90%

[Profile](#)
[Job Board](#)
[About](#)
[Edit CV](#)
[Log Out](#)

Applied Jobs
1

NSU CPC

Hello Sahil Yasar

[General Info](#) [Change Password](#) [Update Info](#) [Update CV](#) [Update Picture](#)

Profile Completion: 90.91%
Name: Sahil Yasar
Email: sahilhai@northsouth.edu
NSU ID: 2131367042
School: SEPS
Department: ECE
Phone: 01677564809
Status: CS
CGPA :
Credits Completed :

Student Features

Submit Your CV

Name
Sahil Yasar

NSU ID
2131367042

NSU Email
sahilhai@northsouth.edu

Email
sahil.yasar@northsouth.edu

Phone
01710241003

Address



SAHIL YASAR

SUMMARY

Dedicated and proactive business administration student with a strong focus on finance and data analysis, seeking opportunities to apply skills in a dynamic professional environment.

EDUCATION

1.Bachelor of Business Administration 2024
Finance
North South University

EXPERIENCES

2023 - 2023
Innovative Solutions Ltd. (**Intern**)
Assisted in developing financial strategies and conducted market research to enhance business decisions.

PROJECTS

2023 - 2023
Market Trend Analysis
<https://projectexample.com/market-trend-analysis>

Corporate Features



NSU CPC

Hello mahir

POST A JOB

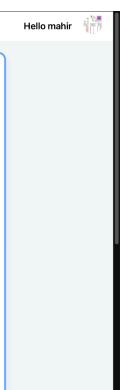
Vacancy Number
Enter vacancy number 09/10/2024

CGPA Requirement
Enter CGPA requirement Enter salary

Job Type
Enter job type CATEGORY
Select a category

Position Name
Enter position name Job Location
Enter job location

Required Experience
Enter required experience PREFERRED PROGRAM
Select a program



NSU CPC

Hello mahir

Edit Job Details

VacancyNumber
30

Deadline
09/10/2024

CgpaRequirement
2.8

Salary
40000

Category
Education/Training

JobTvoe

[Open] Senior Teacher (Full-Time)
at Bright Future Academy in Chicago

Salary: \$40,000
Deadline: 9/10/2024

[Edit Job](#)

List of Job Candidates

Name	Applied At	Status	Email	CV
1. Shahriar Ratul	5/10/2024	pending	shahriar.ratul@northsouth.edu	View CV
2. Mahir Shahriar Tamim	5/20/2024	pending	mahir.tamim@northsouth.edu	View CV
3. Sahil Yasar	5/20/2024	pending	sahilhai@northsouth.edu	View CV

Admin Features

Welcome Administrator

[Job Board](#) [About](#) [Log Out](#)

HR Coordinator Contract
People First

Category: Human Resources
Experience Required: 3 years
CGPA Required: 3.0

coordinator

60,000 BDT/Month
San Francisco

[Details](#) [Close Job](#)

Senior Teacher Full-Time
Bright Future Academy

Category: Education/Training
Experience Required: 5 years in Teaching
CGPA Required: 2.8

teaching senior

40,000 BDT/Month
Chicago

[Details](#) [Admin Approved](#) [Close Job](#)

[Unapproved] HR Coordinator (Contract)
at People First in San Francisco

Salary: \$60,000
Deadline: 8/20/2024

Change Job Status: [Activate](#) [Deactivate](#) [Update Job Status](#)

Job Context & Responsibilities:
The job falls in the category of Human Resources
Students of Human Resource Management are preferred.
Manage recruitment and employee relations.
Handle employee onboarding and benefits.

Requirements:
At least 3 years of experience is required for this job
CGPA needs to be at least 3.00.
Excellent communication skills.

Benefits:
Flexible hours, Wellness programs

Welcome Administrator

[Job Board](#) [About](#) [Log Out](#)

Select User Type [Student](#) [Search by Email or Name:](#)

Email	Name	School	Department	Status	Actions
mahir.tamim@northsouth.edu	Mahir Shahriar Tamim	sda	ECE	Active	Delete Make Inactive
sahilhai@northsouth.edu	Sahil Yasar	SEPS	ECE	Active	Delete Make Inactive
whatever@northsouth.edu	whatever	SEPS	ECE	Inactive	Delete Make Active
shahriar.ratul@northsouth.edu	Shahriar Ratul	North South University	ECE	Active	Delete Make Inactive

6.2 Future Enhancements

For the future we would like to put more emphasis on the security of the website. Since, we will be handling a lot of sensitive information of both the students and the businesses, added security would only benefit the website. Other than that there is a lot of scope to add AI to the website. A notification system can also be implemented which would notify users of recent activities relevant to them.

7. Complex Engineering Problems and Activities

7.1 Complex Engineering Problems (CEP)

TABLE I. COMPLEX ENGINEERING PROBLEM ATTRIBUTES TABLE

Attributes		Addressing the complex engineering problems (P) in the project
P1	Depth of knowledge required (K3-K8)	Required knowledge of programming language, algorithms (k3/k4), tools (k6).
P3	Depth of analysis required	No unique way to design. Depth of analysis is needed to select a specific framework, programming language, and algorithm. Also, frontend design of the website.
P4	Familiarity of issues	Web frameworks such React, Node, Express and Tailwind, Daisy UI. These were outside the core course curriculum.
P7	Interdependence	None

Table I demonstrates a sample complex engineering problem attribute.

7.2 Complex Engineering Activities (CEA)

TABLE II. COMPLEX ENGINEERING PROBLEM ACTIVITIES TABLE

Attributes		Addressing the complex engineering activities (A) in the project
A1	Range of resources	This project involves modern web development tools.

A2	Level of interactions	Involves interactions between students and faculty only.
A3	Innovation	None

8. Conclusion

We have worked hard for the past few months to not only recreate the current CPC website using modern architecture and software, we also worked hard to add new and relevant features to make the new CPC website stand out as much as possible. While the current CPC websites utilizes old software like SQL, javascript, etc we made the current website to work with MongoDB, React, etc. The UI was made to follow modern design principles, and a lot of tweaks were made to ensure a high user experience for everyone, from students to corporate to admin. This new and revamped website would help connect job seekers and employers more efficiently and effectively. The NSU students would not have to work too hard to get a job they like, unlike other people their age. And the modularity and simplicity of the code ensures that the project can be easily modified and maintained as time goes on.

9. Github Link

[Github Link](https://tinyurl.com/299-nsu-cpc) - <https://tinyurl.com/299-nsu-cpc>

10. References

- React. Learn. Retrieved from <https://react.dev/learn>
- DaisyUI. DaisyUI Documentation. Retrieved from <https://daisyui.com/>
- Tailwind CSS. Documentation. Retrieved from <https://v2.tailwindcss.com/docs>
- Node.js. API Documentation. Retrieved from <https://nodejs.org/docs/latest/api/>
- Express.js. Documentation. Retrieved from <https://expressjs.com/>
- Firebase. Documentation. Retrieved from <https://firebase.google.com/docs>
- Railway. Documentation. Retrieved from <https://docs.railway.app/>
- Passport.js. Documentation. Retrieved from <https://www.passportjs.org/docs/>
- Google Developers. OAuth 2.0 Documentation. Retrieved from <https://developers.google.com/identity/protocols/oauth2>
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