

NACHIKET DIGHE

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SKILLS

Programming languages: Ajax, CSS, C#, C++, Java, JavaScript, Python, R, Ruby, Swift, Typescript

Tools: AWS EC2 S3, Azure, CocoaPods, Git, SQL, Nginx, Node.JS, Postman, Salesforce,

Frameworks: Angular, React, Solid, Express, Axios, Cheerio, SwiftUI, CocoaMQTT, Flask

Python Libraries: Flask, Pandas, NumPy, Matplotlib, OpenCV, Tesseract, Unicorn, Torch

EDUCATION

University of Cincinnati

Bachelor of Science, Computer Science, Business Analytics certification, Software Engineering certification

- Graduating with honors, International Outreach scholarship, UC Global Scholarship, Dean's List, Co-op scholarship

Graduating: May 2025

GPA: 3.7

Harvard University

Pre-college program, Computer Science

- Introduction to C, created games such as tic-tac-toe in C and animations and games using scratch.

July 2019

WORK EXPERIENCE

Data Science co-op | Delta Air Lines

May 2023 - August 2023

- Spearheaded the development of a comprehensive internal-use website, leveraging Python Flask to seamlessly connect the backend and frontend, while harnessing OpenSearch for a dynamic search engine capable of both lexical and vector semantic search.
- Engineered the indexing process to efficiently parse and store documents, allowing for quick retrieval of relevant information.
- Orchestrated the integration of a cutting-edge vector semantic search functionality, intelligently indexing select documents as vectors and deploying an in-house pre-trained model to identify industry-specific terms.
- Engineered the search engine to utilize cosine similarity via OpenSearch, effectively recognizing phrases and delivering the top 10 closest matches for enhanced user search experience.

Data Analysis co-op | Delta Air Lines

September 2022 - December 2022

- Collected, analyzed, and presented the pain points by performing a cost analysis model on engines supplied by Pratt and Whitney, using the pyodbc, xlwings, openpyxl and pandas library in python to access, clean and present the data in an excel file.
- Used matplotlib, plotly and seaborn in python visualize data and present it in a dashboard form to various leaders at Delta.

iOS App Developer & Integrations co-op| Chamberlain Group

Jan 2022 - Apr 2022

- Built an IOS app from scratch utilizing Swift and used CocoaPods to import frameworks such as CocoaMQTT.
- Worked closely with the UI/UX team to do weekly design reviews for the app screens and built them from Figma.
- Collaborated with other engineers to build the backend in python by utilizing an open-source ALPR software and connected it to the frontend by implementing MQTT protocols using a cloud based MQTT broker.
- Partnered closely with both engineers and designers to constantly improve the views and functionality of the app.
- Demoted the app to CEO and stakeholders which created a huge impact on the company's prospective roadmap.

PROJECTS

AWS Login Page | Python, Flask, SQLite

Feb 2024

- Developed a simple login page using Flask on an AWS EC2 instance and configured a Nginx server and Unicorn to keep the instance [running](#).

Gamified Canvas | React.JS (using Vite)

August 2023 - December 2023

- Collaborated closely with two other Computer Science majors to research and develop a website for an alternate version of Canvas.
- Spearheaded the development of the website by splitting and assigning tasks, leveraging React Router and Navbar to create navigation paths.

World Cup News Live API | Node.JS (using express, axios and cheerio)

November 2022

- Developed a REST API that takes the URL of multiple sports websites and scrapes data contacting live news about the upcoming world cup and returns the article's title and URL in JSON format to the user.
- Defined and developed dynamic filters for users to choose and subscribe from relevant news sources, i.e., ESPN, goal etc.
- Deployed the API to Heroku and uploaded it to [RapidAPI](#).

ACTIVITIES AND ORGANIZATIONS

Member, Treasurer | CEAS Ambassador

June 22, 2022 - Present

- Represent the University as an ambassador for the college of Engineering and providing tours to upcoming and interested students.

Student Orientation Leader and Office Staff | University of Cincinnati

Apr 2021 - Present

- Represent the University by providing campus tours, responding to inquiries via email, and assisting incoming first-year students.

CERTIFICATIONS

- [Microsoft Certified: Azure AI Fundamentals](#)

Apr 2024