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EDUCATION

The University of North Carolina at Charlotte
Master of Science in Computer Science, Current GPA: 4.0/4.0
Relevant Coursework: Data Structures and Algorithms, Knowledge Discovery in Database, Network-Based Application Development, Cloud Computing, Intro to NLP, Computer Vision

Charlotte, NC
May 2023

Gujarat Technological University
Bachelor of Engineering in Computer Engineering, GPA: 8.11/10
Relevant Coursework: Data Structure, Analysis and Design of Algorithms, Numerical and Statistical Methods for Computer Engineering, Database Management System, Data Mining and Business Intelligence, Software Engineering, Artificial Intelligence

Ahmedabad, Gujarat
June 2018

EXPERIENCE

The University of North Carolina at Charlotte
Teaching Assistant

Charlotte, NC
Jan 2022 – Current

- Assisted the instructor to design the course, prepared required materials, graded the assignments, and facilitated students to understand the course content

Research Assistant

Dec 2021 – Jan 2022

- Developed privacy-protecting tools for data analytics applications
- Conducted result analysis, developed visualization, and wrote research manuscripts.

DNG Inc.
Associate Software Engineer

Ahmedabad, Gujarat
Feb 2021 – June 2021

- Built a resume parser that can extract key components like career objective, personal information, education, experience, and skills from a resume.
- Conceptualized salary prediction model using different parameters like job position, company type, job location, industry type, job function, relevant work experience, etc.

Technosouls
BI/ETL Developer

Ahmedabad, Gujarat
Oct 2020 – Dec 2020

- Implemented the ETL process using SSIS to migrate data from external sources to the CRM database.

CU Rise Analytics
Technology Analyst

Ahmedabad, Gujarat
Oct 2018 – May 2020

- Developed the ETL pipelines for storing credit unions’ data using SSIS and visualized it with various visualization tools like Power BI, Tableau, and SSRS.
- Collaborated with the Implementation and Production Support teams to implement the ETL pipelines on the client environment and rectify the problems and failures that emerged after implementing the framework.
- Created an efficient time series forecasting algorithm with the help of Python and R.

SKILLS AND INTERESTS

- Programming Languages:** Python, C++, R, JavaScript, SQL, Java, HTML
- Libraries:** ReactJS, Node.js, Spring MVC, Spring Boot, Angular, NumPy, Pandas, Matplotlib, Scikit-Learn, OpenCV, TensorFlow, Keras, PyTorch, NLTK, BeautifulSoup, SciPy, Django, Flask, Express framework
- Tools and Technologies:** Bootstrap, CSS, MSSQL, MySQL, PostgreSQL, MongoDB, SSIS, SSRS, Tableau, PowerBI, Jupyter, Excel, RStudio, Spyder, Visual Studio Code, GitLab, AutoLab, AWS, EC2, S3, EMR, GitHub, Git
- Interests:** Artificial Intelligence, Machine Learning, Data Analysis, Data Engineering, Data Visualization, DevOps life cycle, CI/CD, Kubernetes, Jenkins, Automation, Software Engineering

PROJECTS

Path-finder Visualization (Python) (GitHub: <https://github.com/pratikp676/path-finder>)

- Visualized Dijkstra’s algorithm and A* search algorithm to find the shortest path between the source and the target node using the pygame module
- Implemented functionality of wall which works as an obstacle between the source and the target node

Sorting Algorithm Visualizer (Python) (GitHub: <https://github.com/pratikp676/sorting-algo-visualizer>)

- Created visualization application of workings of different sorting algorithms using Python and Tkinter module.
- The tool provides a facility to choose an algorithm, visualization speed, and size of the array.

Expense tracker (HTML, CSS, JavaScript, Node.js, React) (GitHub: <https://github.com/pratikp676/expense-tracker>)

- Developed a web-based tool to keep track of your all expenses using React
- The tool can perform the CRUD operations and we can add, view, update and delete expenses as and when required

Human Resource Management System (HTML, CSS, JavaScript, Node.js, Angular)

- As a part of a course curriculum, we are developing a Human Resource Management System which will help companies/organizations to make the process of employee onboarding/exiting easy, smoother, and flexible

PUBLICATION

A Paper published in International Journal for Scientific Research & Development titled ‘A Survey Paper On 3D Face Recognition Methods’ | Vol. 5, Issue 11, Jan 2018 | ISSN (online): 2321-0613.