Naishal Patel

+1 267-304-8559 | Gmail | LinkedIn | GitHub | Portfolio

EDUCATION

Rutgers University, New Brunswick, New Jersey

Master of Science in Computer Science – Specialization in Machine Learning

Sep 2021 – May 2023

GPA: 4/4

Relevant Courses: Data Structures & Algorithms, Intro to AI, Statistics, Massive Data Mining, Machine Learning, Database for Data Science

Dhirubhai Ambani Institute of Information and Communication Technology, India

Aug 2016 - May 2020

Bachelor of Technology in Information and Communication Technology

GPA: 7.99/10

RELEVANT EXPERIENCE

Software Developer, Monocept, India

Nov 2020 - Apr 2021

- Collaborated with a 5 member team following the Agile model of development with SCRUM methodologies for the development of the two-wheeler insurance portal of ICICI Lombard.
- Spearheaded the frontend development of the portal using Angular and utilized C# for backend services.
- Optimized the architecture of existing components in Vue/Angular, resulting in an 8% improvement in startup time which impacted the user experience of over 200,000 customers.

Web Developer, Atlantix Digital, India

Jun 2020 - Nov 2020

- Collaborated with a 4 member team following SCRUM methodology for the development of a SaaS platform related to eCommerce website
 development.
- Led the frontend development using React with Ionic framework and utilized Python flask for backend services and APIs.
- Designed and maintained database using MySQL with Redis as cache; also modified existing services which improved API latency by 15%.

Software Developer Intern, Tata Consultancy Services, India

Jan 2020 - May 2020

- Developed ERP modules for HR application in ServiceNow which landed the company 2 more projects in the future
- Implemented custom widgets using Angular JS, HTML, CSS, Bootstrap to configure pages of ServiceNow modules that send employee info entered by the HR to ServiceNow tables.

PROJECTS

Voyage into the Unknown | Python, Multiprocessing, Pandas, Matplotlib, Tensorflow, Keras | GitHub

- Designed and implemented variations of A* algorithms using Python with multiprocessing, for different variants of target finding agent in the
 given gridworld with obstacles, where the agent has no prior knowledge of the environment and learns about it as it traverses along the
 gridworld.
- Utilized the data generated from the implemented algorithmic agents to train a model using Tensorflow and Keras to mimic the behavior of
 algorithmic agents gaining over 91% accuracy.

Traveling Salesman Problem Variations | Python, Multiprocessing, PySimpleGUI, Matplotlib | GitHub

- Implemented three genetic algorithms: Ant Colony Optimization, Black Hole Optimization, Particle Swarm Optimization using Python with multiprocessing; to find a polynomial-time solution of an NP-Hard problem and analyzed the space and time complexity along with optimality of the solutions.
- Developed UI using PySimpleGUI for initial user inputs and utilized Matplotlib for visualization of results.

Amazon-Clone | ReactJS, Firebase, Next.js, Tailwind CSS | GitHub

- Developed an Amazon clone website using ReactJS, Firebase, Next.is, Tailwind CSS.
- Implemented Google Sign In a fully functional cart using React Redux and Integrated a secure payment processing system using Stripe.

Real-time Hair Detection system | Python, OpenCV, PyTorch, CUDA, Numpy | GitHub

- Designed and created an application that detected hair and allowed users to alter hair color in real-time which has a significant impact in the fashion industry.
- Used OpenCV for preprocessing image data and used PyTorch to train PSP ResNet neural network model gaining over 96% accuracy.

Web application for Warehouse Management System | PostgreSQL, HTML/CSS, JavaScript, Python | GitHub

- Designed and implemented a full-stack web application using HTML/CSS and JavaScript that allows the manager to keep track of goods and
 orders in multiple warehouses, and also customers can check the status of their orders.
- Used PostgreSQL as the database to implement functionalities like generating Goods Receipt Note and Sales Invoice, managing purchase order and sales order.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, C/C++, C#, HTML, CSS, Matlab, R, SQL

Frameworks: Angular, React, Vue, Django, Flask, REST APIs, AWS, .NET, PyTorch, Tensorflow, Keras

Databases: MySQL, PostgreSQL, Redis

Tools: Git, Github, Postman, Docker, CUDA, Visual Studio, Jupyter Notebook

Leadership Experience/ Extracurricular activities

Rural Internship Dec 2017

Our team provided basic education to 120+ students in rural school. Taught technologies useful to use at village.

Coordinator of football event for Concours-2k18

Nov 2018

Our team handled fixtures and coordinated every aspect of the football match for the Annual sports festival of DAIICT.

Volunteer for Synapse-2k18

Feb 2018

 Worked with PR team to improve sales and marketing of various events of Synapse(Annual cultural festival of DAIICT) resulting in an increase of 10% footfall.