Abhishek Sandeep Firodiya

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EDUCATION

North Carolina State University (NCSU), Raleigh, NC   May 2024
Master of Computer Science   **GPA: 4.0/4.0**
Related Coursework: Design and Analysis of Algorithms, Automated Learning and Data Analysis, Fundamentals of Data Science, Database Management System, Neural Networks and Deep Learning, Human Computer Interaction, Social Computing

Pune Institute of Computer Technology, **Maharashtra, India**   April 2020
Bachelor of Engineering in Information Technology   **GPA: 9.28/10**
Related Coursework: Data Structures, Machine Learning, Software Engineering, Web Development, Computer Network

SKILLS

Programming and Web Development : Python, JavaScript, TypeScript, HTML, CSS, Bootstrap, R, C, C++, Node.js, JDBC
Databases : MySQL, MongoDB
Operating Systems : Ubuntu (Linux), Windows, MacOS
Tools & Frameworks : React, Git, JIRA, Rest API, Frappe Framework, Angular, Tableau, Adobe Creative Suite

EXPERIENCE

- **Software Engineer @ Elasticrun, Maharashtra, India**   July 2020 - June 2022
  - **Reduced planning time from 15 days to 3 days** by engineering a Sales and Operations Planning tool for field managers using *Python*, *RestAPI*, *Javascript*, *HTML*, and *CSS*.
  - Pioneered the development of a brand platform, using *Javascript*, *Python* and *MySQL* **optimizing the time to generate insights from 2 days to 2 minutes** for metrics such as sales, throughput, customer engagement, and reach of partner brands.
  - Built a **one-stop solution to visualize** the sales data for warehouses based on 32 different dimensions using the D3JS library.
  - Performed on all levels of the software engineering cycle from documentation to testing, maintenance, and support of all the platforms I built which allowed me to develop the ability to work efficiently and effectively as part of a team.

PROJECTS

- *Web and App Platform Development*
  - Conceptualized and developed a responsive platform leveraging *Python, DJango, HTML, CSS, Bootstrap, Javascript, MySQL,* and *Android*, **to reduce missing person recovery time from months to days** by partial face recognition.
  - Launched the system nationwide in collaboration with the National Crime Records Bureau, Ministry of Home Affairs, India.
  - Managed and organized a dataset of over 30000 images and implemented Machine Learning algorithms for efficient matching.
  - Structured the workflow using UML diagrams, designed a robust database schema, and expanded the system's capabilities to analyze images from CCTV footage, enhancing its effectiveness in locating missing people.

- *React App Development*
  - Building a platform for contact management (add, delete, and edit contacts) using *Modern React*, *Routing* and *Redux*.

- *Database Management and Web Development*
  - Architectured a **Food Ordering and Pickup System** using *Python, HTML, CSS, Bootstrap, Javascript, JDBC,* and *MySQL*, enabling menu management for restaurants, online ordering for customers, and data visualization for admin.
  - Integrated various services within the system, including onboarding new customers and restaurants, facilitating food ordering, cart management, and efficient order tracking.

- *Database Management System*
  - Spearheaded the development of a **media streaming service** using *MySQL* and *JDBC* for song, artist, album, podcast, and episode data management.
  - Implemented maintenance, royalty generation, and reporting functionalities, to enhance data analysis capabilities.

- *Machine Learning*
  - Developed a tool to **classify the job posting** as fake and legitimate using *Python*, *Numpy* and *Pandas* that uses classification models like K-nearest algorithms, Decision Trees, Logistic Regression, and Naive Bayes with **94% accuracy**.
  - Visualized results of classification using *seaborn* and *matplotlib*.

LEADERSHIP

- **PICTOREAL - PICT Annual Magazine: Joint Secretary, Event Manager** - Oversaw 100+ students, organized diverse events including social events like blood donation and fundraising campaigns, recreational events for seniors at old age homes, etc.
- **PICT CSI Student Branch: Design Head** - Directed the design team enhancing visual elements for workshops and marketing.
- **Maitri-Indian Graduate Student Organization NCSU: Digital Media Head** - Generate content for Social media.