GitHub

Nikhil Naikar, MEng

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Skills

- **Languages:** HTML, CSS, JavaScript, TypeScript, Python, Java, C++, C, SQL
- **Frameworks & Libraries:** React, Next.js, Vue.js, Tailwind CSS, Spring Boot, Flask, Pandas, Matplotlib, Seaborn, Beautiful Soup
- **Data Science & AI:** Scikit-learn, TensorFlow, PySpark, Databricks, Proficient in machine learning concepts
- **Other:** MySQL, Linux, Node.js, Docker, AWS, Jenkins, Git, Jira, JUnit, Selenium
- **Certificates:** AWS Solutions Architect Associate, AWS Cloud Practitioner

Experience

Software Engineer Intern **Benevity** **May 2023 – Aug 2023**

MEng Capstone Industry Project Internship

- Collaborated with a team to develop and deploy a feature similar to Spotify's yearly 'Wrapped' summaries for Benevity's platform (10M+ users).
- Practiced Agile methodology, held Sprints, maintained open communication with stakeholders on Slack and through weekly update meetings to demo progress, get feedback, and validate that expectations were met.
- Supported backend development, created RESTful APIs, and achieved response times under 200ms for simple processes and under 2s for complex processes using Java and Spring Boot.
- Utilized Figma to design infographics and workflows, and assisted the frontend lead with the development of the Vue.js components.
- Wrote JUnit tests to verify functionality, identify and resolve errors, resulting in bug-free code.
- Enabled faster and easier deployments to AWS by automating the process with a continuous integration and continuous deployment (CI/CD) pipeline built using Jenkins, Docker, and GitHub.
- Earned a satisfaction score of 95% from the industry sponsor client after the final presentation and demonstration.

Project Manager Intern **Siemens Energy** **May 2021 – Aug 2022**

- Improved project efficiency, and supported the lead project manager throughout multiple project lifecycles.
- Maintained client relations, and led meetings to deliver updates, address issues, provide solutions and outline the next steps.
- Reduced project delays by providing on-site support to the field service team with emergent needs or labor tasks.
- Achieved 100% compliance with site requirements by ensuring timely completion of service team certifications.
- Ensured projects stayed on track and within budget by tracking progress and expenses, and reporting to lead manager.
- Oversaw procurement and site logistics, resulting in smooth project operations and high service team satisfaction.

Education

Master of Engineering **University of Calgary** **Nov 2023**

- Specialization in Software Engineering, GPA: 3.9/4.0
- Principles of Software Development, Databases, Software Architecture, Machine Learning, Algorithms, Data Structures, Data Engineering, Big Data Analysis, Deep Learning, Dependability and Reliability of Systems

Bachelor of Science **University of Calgary** **Apr 2022**

- Major in Electrical Engineering, GPA: 3.4/4.0

Projects

The Podcast Platform **ChatGPT Integration**

Currently building

More info: https://github.com/Nikhil-Naikar/The-Podcast-Platform

- Creating an application for hosting podcasts with AI-powered features, including text-to-multiple-voices functionality and AI-generated images, with OpenAI integration.
- Implementing usage of Clerk to enable secure and reliable authentication and user management.

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- Utilizing ShadCN component library, Tailwind CSS, TypeScript and React to design a beautiful user interface.

Airbnb Pricing Intelligence **Artificial Intelligence Model**
More info: https://github.com/Nikhil-Naikar/Airbnb-Pricing-Intelligence

- Worked with a team to create an AI model to assist Airbnb hosts in setting competitive prices and to help customers evaluate pricing fairness.
- Significantly accelerated development by utilizing Databricks, PySpark, and Python.
- Improved efficiency by prompting ChatGPT to label the reviews as positive, neutral or negative.
- Preprocessed reviews to improve data quality, filtered for English reviews, removed punctuation and stop words.
- Built a Natural Language Processing model to perform sentiment data analysis on the remaining reviews.
- Utilized Machine Learning classification algorithms like Logistic regression, Random forest, and Naive bayes, and regression algorithms like Linear regression, Decision Tree, and Gradient boosting.

Clock In Clock Out **Full Stack App**
More info: https://github.com/Nikhil-Naikar/Clock-In-Clock-Out

- Created a web app for restaurant businesses that allows employees to easily log in/out, clock in/out of shifts, and view their shift and pay history.
- Built RESTful APIs with Java and Spring Boot to separate the frontend and backend, resulting in an architecture that is highly flexible and adaptable to future changes.
- Utilized a MySQL database and wrote many SQL queries in the backend to retrieve and manipulate data, ensuring accurate and organized data management.
- Developed the Vue.js app using a component-based architecture, for easy addition of features, and utilized Pinia to manage the frontend data efficiently.
- Simplified deployment and operation of the app by creating Docker files for both the frontend and backend.

HNM Clothing Store **Database Design**
More info: https://github.com/Nikhil-Naikar/HNM-Clothing-Store

- Collaborated with a team to develop an e-commerce website enabling users to browse and purchase clothing, while also allowing admin users to manage the inventory by adding, editing, or deleting items.
- Applied good relational database design practices like enhanced entity-relationship modelling to ensure robust data management.
- Implemented a SQLite database and used the SQLAlchemy library to efficiently execute numerous SQL queries.
- Developed the backend using Python and Flask, and created the frontend with Bootstrap components, HTML, CSS, and JavaScript to deliver a seamless user experience.

IMDB Sentiment Analysis **Neutral Networks**
More info: https://github.com/Nikhil-Naikar/IMDB-Sentiment-Analysis

- Built a reliable Deep learning model using the TensorFlow library to predict the correct sentiment for IMBD movie reviews with a dataset of 50000 rows.
- Improved data quality by performing multiple data cleaning steps like utilizing Beautiful Soup for HTML parsing, removing stop and non-alphabetic words, and Snowball Stemmer for word normalization.
- Optimized the model performance by fine tuning the hyperparameters and modifying the architecture, and utilized bag of words for better feature extraction.
- Achieved an accurate model with a training score of 88% and a testing score of 87%.

Volunteer

Mentor **Big Brothers Big Sisters**

- Offered support and guidance to youth through frequent interactions, and participation in everyday activities such as tutoring, playing board games or sports, and building a positive relationship.