GitHub
LinkedIn
Portfolio-website

Nikhil Naikar, MEng

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Summary

Master's Graduate in Software Engineering with expertise in AWS and AI, and industry experience in full-stack web development, project management and client relations. Currently seeking a company where I can apply my skills, collaborate with experienced professionals to solve business problems, and grow within a dynamic team.

Skills

- **Front-end:** HTML, CSS, JavaScript, TypeScript, React, Next.js, Vue.js, Pinia, Tailwind CSS, Shadcn
- **Back-end:** C#, Java, Python, ASP.NET Core, Spring Boot, Flask, Pandas, Matplotlib, Seaborn, Beautiful Soup
- **Data Science & AI:** Scikit-learn, TensorFlow, PySpark, Databricks, Proficient in machine learning concepts
- **Other:** PostgreSQL, MySQL, SQLite, Linux, Node.js, Docker, Jenkins, Git, Jira, JUnit, Selenium
- **Cloud Certificates:** AWS Solutions Architect Associate, AWS Cloud Practitioner

Experience

Benevity

Software Engineer Intern (MEng Capstone Industry Project Internship)　　　　**May 2023 – Aug 2023**

- 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 back-end 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 front-end lead with the development of the Vue.js components.
- 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.

Siemens Energy

Project Manager Intern　　　　**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.
- Managed procurement and site logistics, resulting in smooth project operations and high service team satisfaction.

Education

Master of Engineering in Software Engineering　　　　**Graduated Nov 2023**
University of Calgary　　　　**GPA: 3.9/4.0**

- Principles of Software Development, Databases, Software Architecture, Machine Learning, Algorithms, Data Structures, Data Engineering, Big Data Analysis, Deep Learning

Bachelor of Science in Electrical Engineering　　　　**Graduated Apr 2022**
University of Calgary　　　　**GPA: 3.4/4.0**

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Web Development Projects_____

The Podcast Platform *Demo Link: https://www.youtube.com/watch?v=XS7b3M92oP0*
- Created an application for hosting podcasts with AI-powered features, including text-to-multiple-voices functionality and AI-generated images, with OpenAI's generative AI models (TTS & DALL·E 3).
- Built front-end using Next.js, utilized React server components to improve performance and middleware functions to authenticate users securely with Clerk.
- Utilized Shadcn component library and Tailwind CSS to design a beautiful responsive user interface for both mobile and desktop users.

HNM Clothing Store *More info: https://github.com/Nikhil-Naikar/HNM-Clothing-Store*
- Collaborated with a team to build 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.
- Implemented a SQLite database and used the SQLAlchemy library to efficiently execute numerous SQL queries.
- Developed the back-end using Python and Flask, and created the front-end with Bootstrap components, HTML, CSS, and JavaScript to deliver a seamless user experience.

Clock In Clock Out *More info: https://github.com/Nikhil-Naikar/Clock-In-Clock-Out*
- Created a full-stack application for restaurant businesses that allows employees to easily clock in/out of shifts, and view their shift and pay history.
- Built RESTful APIs with Java and Spring Boot, while following the SOLID object-oriented design principles and utilized a MySQL database to store all the data.
- Created a Vue.js app using a component-based architecture, and integrated Pinia for front-end state management.
- Simplified deployment and operation of the app by creating Docker files for both the front-end and back-end.

Artificial Intelligence Projects_____

IMDB Sentiment Analysis *More info: https://github.com/Nikhil-Naikar/IMDB-Sentiment-Analysis*
- Built a reliable deep-learning model (neural networks) using the TensorFlow library to predict the correct sentiment for IMBD movie reviews with a dataset of 50,000 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 the bag of words method for better feature extraction, achieving a 88% training score and a 87% testing score.

Airbnb Pricing Intelligence *More info: https://github.com/Nikhil-Naikar/Airbnb-Pricing-Intelligence*
- Worked with a team to create a predictive AI model to assist Airbnb hosts in setting competitive prices and to help customers evaluate pricing fairness.
- Accelerated development by leveraging distributed computing with Databricks and PySpark, and by prompting ChatGPT for data labeling.
- Built a Natural Language Processing (NLP) model to perform sentiment analysis on the reviews, and tested the models with various classification and regression algorithms.