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Nikhil Naikar, MEng

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Summary

Software Engineering Masters graduate with experience in full-stack application development, management and client relations. Currently seeking entry-level/junior software engineer roles at a company where I can apply my skills, learn from experienced professionals, and grow within a dynamic team.

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

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

- 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 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 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 log in/out, clock in/out of shifts, and view their shift and pay history.
- Built RESTful APIs with Java and Spring Boot to decouple the front-end and back-end.
- Utilized a MySQL database and wrote many SQL queries in the back-end to retrieve and manipulate data, while 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 front-end data efficiently.
- 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 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 the bag of words method for better feature extraction.
- Achieved an accurate model with a training score of 88% and a testing score of 87%.

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.
- 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.