

Summary

Software Engineering Masters graduate with experience in full-stack application development, management and client relations. Passionate about cloud computing, and generative/predictive AI, and committed to continuous learning. Currently seeking 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

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 BeautifulSoup 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.