

Nikhil Naikar, MEng

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GitHub – <https://github.com/Nikhil-Naikar>

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Portfolio Website - <https://nikhilnaikar-homepage.vercel.app/>

SUMMARY

Master's Graduate in Software Engineering with proven skills in AWS and AI, alongside industry experience in web development, project management, and client relations. Currently seeking an opportunity to apply my skills, collaborate with experienced professionals to solve business challenges, and grow within a dynamic team.

SKILLS

- **Front-end:** HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, Shadcn
- **Back-end:** Python, Java, C#, ASP.NET Core, Spring Boot, JUnit, Node.js
- **Other:** Git, PostgreSQL, Redis, Linux, AWS, Docker, Terraform, Bash, Shell Scripting, Jenkins
- **Certificates:** AWS Solutions Architect Associate, AWS Cloud Practitioner

EXPERIENCE

Somnivet - Developer

October 2024 - present

- Working with specialists in the veterinary medical field to build a medical application designed to make daily tasks easier, enhance productivity and improve the quality of patient care.
- Developed a Node.js backend, setup a WebSocket sever and utilized Redis pub/sub to build a streamlined data pipeline to significantly speed up the transmission of the real time data to the client's browser.
- Leveraged Docker and shell scripts to simplify deployment process of backend server onto DigitalOcean.
- Translated Figma mockups into functional visually appealing user interfaces using a low-code platform.

Benevity - Software Engineer Intern

May 2023 – Aug 2023

- Collaborated effectively with a cross-functional team to develop a feature similar to Spotify's 'Wrapped' summaries for Benevity's platform, serving 10M+ users and deployed to AWS.
- Achieved a 95% client satisfaction score by working in an Agile environment and ensuring continuous, effective communication with stakeholders via Slack and weekly meetings to gather feedback, validate progress, and meet project requirements.
- Created RESTful APIs with Java and Spring Boot, achieving optimized response times of under 200ms for simple requests and under 2 seconds for complex processes.
- Accelerated deployment by 50% and improved reliability by removing human error through automation, using a CI/CD pipeline with Jenkins, Docker, and GitHub.

Siemens Energy - Project Manager Intern

May 2021 – Aug 2022

- Enhanced project efficiency by supporting the lead project manager across multiple service project lifecycles with budgets ranging from \$300-500k, particularly during the implementation stage.
- Oversaw procurement by obtaining budget-compliant quotes to keep the project within budget, and managed site logistics by coordinating and scheduling equipment delivery to and from the site upon project completion.
- Established strong client relationships by building trust through leading weekly meetings with the client and the consulting professional engineers to discuss progress, address concerns, and outline next steps.

EDUCATION

Master of Engineering in Software Engineering

University of Calgary | Graduated Nov 2023 | GPA: 3.9/4.0

Bachelor of Science in Electrical Engineering with Distinction

University of Calgary | Graduated Apr 2022 | GPA: 3.4/4.0

ARTIFICIAL INTELLIGENCE PROJECTS

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.

CLOUD AND DEVOPS PROJECTS

Portfolio Website

- Utilized Terraform to automate the setup and management of AWS infrastructure, accelerating deployment and testing by 70%. Leveraged Git/GitHub for version control and created reusable code modules to standardize infrastructure across projects.
- Deployed the application on an Amazon Linux EC2 instance, limiting access through security groups and ensuring secure SSH access using a .pem key.
- Simplified the boot-up process by using bash scripts to automate the installation of necessary services like Docker and securely retrieve credentials from AWS Secrets Manager.
- Improved performance and reduced latency by up to 60% by integrating CloudFront, which cached content closer to users, while enhancing security with DDoS protection and SSL encryption via AWS Certificate Manager.
- Plan to create a custom VPC to strengthen security and implement a CI/CD pipeline using Jenkins to streamline continuous integration for static website content.

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.