Aayush Halgekar

Boston, USA | +1 (719) 439-0118 | halgekar.a@northeastern.edu | linkedin.com/in/aayushhalgekar1204/

Education

Master of Science in Computer Science

Northeastern University CGPA: **3.9** / **4.0**

Courses: Programming Design Paradigms, Algorithms, Database Management Systems

Bachelor of Engineering in Computer Engineering

May 2022

Dwarkadas J. Sanghvi College of Engineering, University of Mumbai

CGPA: **9.3** / **10.0**

May 2024 (expected)

Courses: Data Structures and Algorithms, Software Engineering, Machine Learning

Technical Skills

- Languages and Databases: Python, TypeScript, JavaScript, Java, HTML, CSS, SQL (MySQL, PostgreSQL, SQLite), NoSQL (MongoDB)
- Technologies and Frameworks: Amazon Web Services (EC2, Lambda, S3), Dagster, Django, Node.js, Flask, React, Rasa, REST APIs, GraphQL, Docker, Kubernetes, Pandas, NumPy, PyTorch, TensorFlow, Git, Agile

Experience

Catalan AI Jun 2023 – Present

Software Engineering Intern - Machine Learning

Boston, MA

- Developed a two-tier modeling approach, combining a forecasting pipeline with a distinct optimization model, enhancing pricing strategy accuracy, outperforming conventional single-model designs
- Developed an intelligent feature selection framework, resulting in a substantial reduction of 20% in both Mean Absolute Percentage Error (MAPE) and symmetric Mean Absolute Percentage Error (sMAPE), bolstering model reliability
- Researched and implemented custom metrics while exploring various time series models, including ARIMA and LSTMs, for predicting temporal trends

J.P. Morgan Chase & Co.

Jun 2021 - Sept 2021

Software Engineering Intern

Mumbai, India

- Developed a **conversational chatbot** using Rasa to execute queries on case management application and provided an intuitive way for case retrieval
- Created a pipeline that was 95% accurate in intent classification & 97% for entity recognition using DIET Classifiers & CRFs
- Designed the chatbot to be compatible to both SQL(Oracle) and NoSQL(Cassandra) DB

Vilas Engineering Works

Jun 2020 - Sept 2020

Full Stack Developer

Mumbai, India

- Prototyped an e-commerce website for digitizing processes using Django, HTML, CSS, JavaScript, and PostgreSQL
- Incorporated features for verification and display of products & vendors for administrators, reducing direct costs by 18%
- Implemented functionalities allowing users to view products, place and track orders, and request for returns and refunds

Projects

Event Booking App | React.js, MongoDb, GraphQL, Node.js

- Developed an event booking web application that allows users to register, login, create their events, book an event, and cancel their bookings
- Used **GraphQL** to build the APIs for the website, MongoDB to store users and events details. Incorporated a dataloader tool to reduce overhead resulting from frequent API calls to the database

Stock Portfolio Management | Java, Swing, SQL

- Implemented MVC design pattern to develop a desktop application using JAVA to manage stock portfolios in realtime
- Fetched real time stock data using Alphavantage API and stored it in SQL to perform data caching using SQLpro-gramming objects like stored procedures, functions, and triggers

Achievements

- 1st place at LionHacks 2023, ETHBoston 2023
- 3rd place at HackWeb3 at Harvard University