Bhavpreet Singh

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Education

Bachelors in Computer Science **Jan 2021-Present**
New York Institute of Technology, Old Westbury, New York

- Overall GPA of 3.89, Computer Science GPA 3.89
- Received T.K. Steele Scholarship, Presidential Honor List 2021-24

Skills

Programming Language: Java, Python, JavaScript, HTML5, CSS, EJS
Web & Frameworks: Node.js, Express.js, React, Bootstrap, Redux, Next.js, Tailwind
Databases: MongoDB (Mongoose & Atlas), MySQL
DevOps: Docker
Other Technologies: MS Office, VS Code, IntelliJ, Eclipse, NetBeans, Windows
Certification: Full stack web development
Soft Skills: Problem Solving, Time Management, Adaptability, Team Collaboration & Communication

Academic Projects

New York Institute of Technology, Old Westbury, New York
Library Deliver system **Spring 2024 – Present**
Our main objective is to offer a convenient platform for accessing physical library books, bypassing the need to visit libraries in person and serving as a learning opportunity for us to explore new technologies hands-on. By integrating Node.js, Express.js, React.js, and others, with features like personalized recommendations and seamless book delivery.

Hotel Feedback Portal **Fall 2023**
Developed a Node.js-based Hotel Feedback Portal with Node.js, Express.js, and MongoDB, featuring user authentication, machine learning-powered complaint categorization, and PDF report generation for managers. Implemented modular code structure for maintainability and robust error handling, enhancing the overall user experience in the hospitality sector.

Messenger **Fall 2023**
Designed and implemented a secure and feature-rich chat application in Java, utilizing MySQL for robust user authentication, socket programming for real-time communication, and Java Swing for an intuitive user interface. Achieved seamless message and file transfer functionality within a client-server architecture.

Shadow Bank **Fall 2023**
Developed a Java-based banking system, "Shadow Bank," featuring robust database interactions with MySQL, secure user authentication, and comprehensive management of customer accounts, employee profiles, and approval workflows.

Reddit Sentimental Analysis **Spring 2024**
Conducted sentiment analysis on Reddit data using NLP techniques to gauge public opinion dynamics. Applied TextBlob and VADER for sentiment classification, while implementing extensive data preprocessing. Leveraged pullpush.io API for data retrieval and zero-shot classification for topic labeling.

Sentiment Analysis and Classification of Airline Reviews **Spring 2024**
Conducted sentiment analysis and classification of airline reviews using Multiclass Naïve Bayes and SVM algorithms. Evaluated model performance through holdout validation and cross-validation, focusing on accuracy, precision, recall, and F1-score. Identified opportunities for model refinement to enhance predictive capabilities.

Predicting and Analyzing Traffic Levels **Spring 2024**
In the Traffic Prediction Project, I led the analysis of city traffic data using logistic regression, decision tree, and KNN models to predict congestion patterns. This involved preprocessing the data, visualizing trends, and developing models that achieved up to 86.83% accuracy.

Implementation of FSM in making a game **Spring 2023**
Designed a terminal text-based basketball game which implemented the Finite state machines. The game had multiple options and modes.

Work Experience

NYIT, Learning Center, Old Westbury, NY
Peer Tutor **Nov 2023 – May 2024**

- Tutoring individual and/or small group sessions on course content to develop tutees understanding of the material
- Preparing appropriate materials and exercises for tutoring sessions