

Nikki Phach

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I am a first-generation student motivated to express myself creatively with software and, in doing so, realize a vision that has a meaningful impact on its users. I am eager to collaborate within a team and explore diverse challenges to realize our collective goals in our work together.

Education

University of Massachusetts Boston

B.Sc. in Computer Science

Boston, MA

(expected May 2024)

- Advanced Data Structures and Algorithms (Java)
- Applied Discrete Mathematics (\LaTeX)
- The Structure of Higher Level Languages (Racket)

Supervised Machine Learning: Regression and Classification

DeepLearning.AI, Stanford University

Coursera

January 2024

Projects

AI Gesture Recognition for Naval Operations • (Python)

Fall 2023

- conducted data preprocessing using Pandas and Numpy; implemented KMeans clustering for initial gesture data categorization and insight generation
- applied supervised classification methods such as Gaussian Naive Bayes, Logistic Regression, K-Neighbors and Random Forest using scikit-learn to classify gesture data
- presented performance of classification methods by comparing ROC-AUC score and confusion matrix metrics

Memory Debugging Monitor Replication • (C Lang)

Fall 2023

- created functions for reading and writing to memory to addresses in a simulated embedded system
- cross-compiled for execution on both Linux and an SAPC for analysis of memory protection in different environments

Simple Banking Application • (C Lang)

Fall 2022

- developed application enabling users to perform banking operations like deposits, withdrawals, and balance checks through secure login
- utilized socket programming for handling multiple concurrent server connections
- implemented Caesar cipher for encryption, ensuring secure data transmission between server and client

Work Experience

Waitress and Line Cook

2015 - present

Newport Creamery, Mokban Korean Bistro, Balance Patch

- communicated actively with customers and restaurant staff
- prioritized tasks by urgency and importance to enhance efficiency
- applied conflict resolution skills while maintaining a positive and professional atmosphere