

Aybuke Derya Ekiz

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Skills: Python, Java, C, C++, HTML, CSS, R, PostgreSQL, MongoDB, Db2, Jenkins, Jira, AWS, Git, Bash

Education

Bachelor of Arts: Computer Science Major, Psychology Minor

2020 - 2024

McGill University - Montreal, Quebec

- GPA: 3.72 | Alma Mater Entrance Scholarship | Dean's Honor List | Tomlinson Engagement Award for Mentoring
- Selected Coursework: Algorithms and Data Structures, Introduction to Software Systems, Introduction to Computer Systems, Programming Languages and Paradigms, Database Systems, Introduction to Data Science, Applied Machine Learning

Work Experience

Automated Test Developer Intern

2022 May - 2022 August

NoviFlow - Montreal, Quebec

- Contributed to the development of the test automation framework in Jenkins: implemented a new feature for the framework which sends the test run results to the relevant Slack channels, making the test run history more visible and easier to analyze.
- Improved the efficiency of the test runs by implementing a health check for the switch used by tests, yielding fewer failures caused by switch connection issues.
- Did an extensive comparison of the current test cases and the product features that need to be tested, built 14 new automated test cases using pytest.
- Worked on the improvement of the codebase and readability of the libraries.

Teaching Assistant for COMP206: Introduction to Software Systems

2022 January - present

McGill University - Montreal, Quebec

- For the past two semesters, facilitate office hours, grade assignments, monitor discussion boards, and attend TA meetings for the Introduction to Software Systems course, taught in Bash and C, which has over 400 students.

Personal Projects

Guess The Composer

guessthecomposer.herokuapp.com

- MAIS 202 (Machine Learning Bootcamp, offered by McGill Artificial Intelligence Society) Final Project.
- Implemented a random forest machine learning model using scikit-learn which detects the composer of a newly heard piece.
- Trained the model on extracted musical features of hundreds of piano pieces. Achieved 77% accuracy on the validation set, where the random guess would be 20%.

Mood Tracker

moodtrackerhack2.herokuapp.com

- Hackathon Project for MAIS Hacks (McGill Artificial Intelligence Hackathon).
- In collaboration with 2 peers, built a web app that displays the predicted mood of the input sentence.
- Contributed to data preprocessing, model testing, front-end design, and deployment.

Random Poem Generator

randompoemgenerator.herokuapp.com

- A web app that displays a random three-line poem, as well as random colors for the page in each visit.
- The poem is generated by the random selection of words as the appropriate parts of speech, in the order needed for the randomly selected sentence structure.
- Designed and developed the front-end using HTML, CSS, and Flask. Deployed via Heroku.