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Education

University of Texas Arlington
Bachelor of Science in Computer Science, 2023

Projects

Spin Class Instructor App – (Portfolio Project)

- Built a [Django web application](#) to streamline playlist management for fitness instructors.
- Created a dynamic backend using Django views and models.
- Utilized Bootstrap for adding flair to the tables and user controls.
- Implemented a feature to generate new playlists using an LLM.
- Added authentication and account management.
- Used HTMX to design a reactive sortable table.
- Implemented GitHub Actions for CI/CD; [source code available on GitHub](#).

RVLife Planner (Machine Learning App)

Fall 2022 – Spring 2023

- Developed an intelligent trip-planning tool for RV users using a Naïve Bayes model, optimizing hyperparameters for enhanced accuracy.
- Created a responsive frontend with ReactJS and a Python/PyTorch backend.
- Collaborated in a 6-member agile team, contributing to sprint planning and daily standups.
- Authored detailed requirements and design documentation.

Software Testing and QA

Fall 2022

- Developed and executed test suites using JUnit for unit testing for an open-source project.
- Applied various testing methodologies, including input space partitioning, graph-based coverage, logic-based testing, and mutation testing.

Web Poker (Web-Based Multiplayer Game)

Spring 2022

- Developed a multiplayer poker game, utilizing websockets to transmit JSON-formatted game state data to players in real-time.
- Implemented backend logic in Java and managed version control with Git.
- Created detailed requirement specifications and design documentation.
- Contributed to both frontend and backend development, ensuring seamless gameplay.

Technical Skills

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| • Agile Development | • Databases: MySQL, Neo4J, Cypher |
| • Testing, Maintenance, Refactoring | • O/S: Windows, Linux |
| • Backend: Python, Java, C++ | • Web: JavaScript, HTML, CSS |
| • Frameworks: Django, Bootstrap | • Tools: Git, Jira, JUnit, VirtualBox, Excel |