

# Joseph Shadrick

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## Education

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### University of Texas Arlington

*Bachelor of Science in Computer Science, 2023*

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## Projects

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### Personal Project Portfolio Website

- Engineered a full-stack web application to showcase professional projects and skills.
- Implemented backend using Django with PostgreSQL for project metadata and image storage.
- Designed responsive frontend with Bootstrap, ensuring optimal viewing across devices.
- For a comprehensive view of my projects and live demos, please visit: [\[josephshadrick.fly.dev\]](#)

### 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.

### 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 game data in JSON.
- 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.

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## 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, Excel  |