Behzad Janjua

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WORK EXPERIENCE

McMaster University **May 2024 - Apr 2025**

Frontend Website Development Student Lead *Hamilton, ON*

- Co-led a team of student developers/designers to modernize McMaster's Parking Services website, resulting in a 35% boost in traffic and improved accessibility for 30,000+ users.
- Converted user stories into detailed technical specifications, aligning deliverables with stakeholder requirements and enhancing workflow efficiency by 60%.
- Improved interface responsiveness and usability through structured QA processes and user feedback, reducing reported issues by 45% and boosting task completion by 30%.
- Collaborated with cross-functional teams including QA, design, and operations to deliver scalable web enhancements, contributing to a 40% drop in support requests and a 99% user satisfaction rate.
- Defined and tracked key performance indicators such as traffic growth, accessibility impact, and user satisfaction to measure project success

PROJECTS

Java Drone Rescue System | GitHub Repo **Feb 2025 - Apr 2025**

- Collaborated in a team environment to build a modular Java system to control drones for locating survivors and rescue inlets with minimal energy usage in a simulated emergency scenario.
- Applied SOLID and GRASP principles across classes, improving maintainability, testability and scalability.
- Implemented JSON-based control commands and parsing logic using libraries to communicate with drone systems.
- Developed and executed unit tests using JUnit, validating drone movement decisions, radar data, and pathfinding.
- Integrated CI workflows through GitHub Actions and tracked progress using a Kanban board for agile development.
- Assessed technical debt and documented future extension plans.

Python Machine Learning Student Grade Predictor | GitHub Repo **May 2025 - May 2025**

- Developed a supervised learning model using the UCI Student Performance dataset to predict student pass/fail outcomes.
- Preprocessed data with Pandas, including label encoding of categorical features and binary classification of final grades.
- Trained and evaluated Decision Tree and Logistic Regression models using Scikit-learn.
- Assessed model performance with accuracy and precision metrics; visualized results using confusion matrices.
- Achieved approximately 89% test accuracy, demonstrating strong model performance and interpretability.

SKILLS

- **Programming Languages**: Python, Java, HTML, CSS, JavaScript, SQL, C, C++, XML, XSL
- **Version Control**: Git/GitHub, GitHub Projects, GitHub Actions
- **Software Security & Modelling**: Secure software design, Model-based engineering, Software modeling, System modeling, SOLID Principles, GRASP Principles, OO Principles
- **Tools and Frameworks**: JUnit, Code Test Coverage, Profilers, Maven, x86/ARM architecture, Linux Development, AWS, MATLAB
- **Frameworks and Libraries (Basic Exposure)**: TensorFlow, Keras, PyTorch, Spark, Hadoop
- **Databases (Basic Exposure)**: SQL, NoSQL, GraphDB (Exposure), MongoDB, PostgreSQL
- **Cloud Computing Platforms**: Microsoft Azure, AWS

EDUCATION

McMaster University **May 2027**

B.Eng., Software Engineering

- **GPA:** 3.7
- **Achievements:** Deans' Honour List
- **Coursework:** Software Design & Development: Software life cycle, design patterns, testing, version control, debugging, UNIX systems., Data Structures and Algorithms: Graph algorithms, Sorting algorithms, performance analysis., Object-Oriented Programming: Inheritance, polymorphism, exception handling, generic programming.