

# Behzad Janjua

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## PROFESSIONAL SUMMARY

Aspiring Software Engineer with experience in full-stack development, machine learning, and user-centered design. Proven ability to lead technical teams, build accessible and scalable web applications, and apply AI to real-world problems. Skilled in Python, Java, and modern web technologies, with a passion for innovation, sustainability, and creating meaningful, lasting impact through technology.

## WORK EXPERIENCE

### McMaster University

May 2024 - Apr 2025

#### Frontend Website Development Student Lead

Hamilton, ON

- Led a team of 4 developers to modernize a core McMaster University platform, enhancing accessibility and boosting traffic by 35% 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.
- Took initiative to independently develop and deploy a custom analytics dashboard, enabling stakeholders to track usage metrics in real time and reducing manual reporting tasks by 75%.
- Defined and tracked key performance indicators (traffic growth, accessibility, user satisfaction) and integrated user testing into the design cycle, reducing usability issues by 40% and improving feature discoverability across key site sections.

### Hamilton Sustainable Action Project

Jun 2024 - Present

#### Co-Founder & Web/UX Lead

Hamilton, ON

- Co-founded and continue to support HSAP, a student-led initiative connecting McMaster students with local environmental organizations and sustainability efforts in Hamilton, ON.
- Drove engagement with students and local organizations from both McMaster and the broader community through outreach, community partnerships, and digital campaigns, including supporting large-scale events such as the planting of 1,000+ native trees and shrubs, projecting to sequester over 20,000 kg of CO2 annually.
- Led the design and launch of the HSAP website, focusing on accessibility, mobile responsiveness, and timely updates to support community events and sustainability initiatives.
- Led UX research initiatives, including a hackathon-style design sprint for Trees for Hamilton, facilitating structured feedback sessions with 25+ users and converting qualitative insights into a formal UX report adopted by the nonprofit's board.

## PROJECTS

### Java Drone Rescue System | [GitHub Repo](#)

Feb 2025 - Apr 2025

- Developed a modular Java-based drone control game simulating emergency scenarios, where players optimize energy usage to locate survivors and rescue sites under time and resource constraints.
- Implemented JSON-based command parsing, applied SOLID/GRASP principles, and validated drone logic (movement, radar, pathfinding) with unit tests using JUnit.
- Integrated CI pipelines via GitHub Actions, tracked agile progress using a Kanban board, and assessed technical debt to inform scalable system extensions.

### Python Machine Learning Student Grade Predictor | [GitHub Repo](#)

Apr 2025 - May 2025

- Engineered a supervised learning pipeline using Pandas and Scikit-learn to preprocess the UCI Student dataset (label encoding, binary classification) and train Decision Tree and Logistic Regression models.
- Achieved ~89% test accuracy, demonstrating high model interpretability and performance in predicting student pass/fail outcomes.

## SKILLS

- **Programming Languages:** Python, Java, C, C++, Bash, Excel VBA
- **Version Control:** Git/GitHub, GitHub Projects, GitHub Actions
- **Software Modelling:** Secure Software Design, SOLID/GRASP Principles, OO Principles, DS&A, System Modeling
- **Tools:** JUnit, Profilers, Maven, x86/ARM architecture, Linux Development, Code Testing
- **Web Development:** Next.js, Node.js, JavaScript, React, Vite, Typescript, Tailwind CSS, JSON
- **Frameworks and Libraries:** Pandas, Scikit-Learn, TensorFlow (Basic), Keras (Basic), PyTorch (Basic)
- **Databases (Basic Exposure):** SQL, PostgreSQL, NoSQL, MongoDB, Supabase

## EDUCATION

### McMaster University

May 2027

#### B.Eng., Software Engineering (Dean's Honour List)

- **GPA:** 3.7