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*
- Led the end-to-end redevelopment of the HSAP website to improve accessibility, responsiveness, and information architecture, directly supporting increased engagement in community-driven sustainability initiatives.
- Organized and facilitated a hackathon-style sprint for a local nonprofit partner, driving ideation, technical scoping, and stakeholder presentations that secured funding for a full digital platform overhaul.
- Conducted structured UX research with 25+ users and translated insights into actionable requirements, resulting in improved navigation and usability adopted by the organization's leadership.
- Built and maintained outreach infrastructure to support events like the planting of 1,000+ native trees, contributing to an estimated 20,000 kg of annual CO_2 sequestration.
- Acted as the technical lead across a cross-functional team, aligning student developers, designers, and nonprofit stakeholders around timelines, deliverables, and user needs.

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 with GitHub Actions, managed agile workflows via Kanban, and evaluated technical debt to inform scalable system improvements.

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, Ruby
- **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**: JavaScript, Next.js, Node.js, React, Vite, Typescript, Tailwind CSS, JSON, Ruby on Rails, HTML, CSS
- **Frameworks and Libraries**: Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch
- **Databases (Basic Exposure)**: SQL, PostgreSQL, NoSQL, MongoDB, Supabase

EDUCATION

McMaster University (Dean's Honour List)   **May 2027**
B.Eng., Software Engineering - 3.7 GPA