Talha M. Hassan

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Canadian Citizen

SUMMARY

Computer Science Honours student specializing in Software Engineering, currently in the third year of a four-year program. Proficient in both front-end and back-end development, with a strong foundation in software design and problem solving. Committed to continuous learning and exploring emerging technologies, with experience collaborating in team environments effectively.

EDUCATION

University of Saskatchewan, Saskatoon   **April 2027**

Bachelor of Science Honours Computer Science - Software Engineering Option

- Relevant Coursework: Intermediate Software Engineering, Intermediate Data Structures & Algorithms, Algorithm Design Analysis and Correctness, Operating Systems Concepts
- Award: University of Saskatchewan Mathematics Award - 2023

PROFESSIONAL EXPERIENCE

University of Saskatchewan, Saskatoon   **May 2025**
August 2025

Research Assistant

- Developed a Swift mobile application that allows plant scientists to upload plant videos directly from their phones to a server where 3D Gaussian Splatting is performed, with the processed 3D output delivered back into the app, eliminating tedious manual upload and processing steps
- Designed and built a mobile app for wheat head detection using machine learning, enabling interactive bounding boxes for each detected wheat head; users can tap on a wheat head to access a zoomed-in view with average colour and dominant colour palette analysis, assisting in disease detection and plant health monitoring
- Created mobile tools that streamlined plant science research by simplifying the process of data collection, visualization, and analysis

ANOVUS, Calgary   **January 2025**
April 2025

Software Developer Intern

- Developed a mobile app for student identification, including QR code generation and event display features
- Implemented intricate front-end interfaces and interactive components in React Native and JavaScript
- Collaborated in a professional development team using Git for version control

SKILLS

Languages: Java, Python, C, Swift, Go, JavaScript

Frameworks & Tools: React Native, Git, HTML, CSS

Specialties: Mobile App Development, Machine Learning Integration