

Sean Piatt

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Fixated about using technology to solve real problems and make life better for others. I love diving into projects that challenge me — whether it's building intelligent systems, designing user-friendly apps, or learning something completely new. With a background in both engineering and business, I'm obsessed with turning ideas into practical, meaningful solutions.

Relevant Experience

Capstone Project – Smart Monitoring System

January 2025 to April 2025

- Designed a real-time safety monitoring system using ESP32 microcontroller and Android Studio to detect inactivity and notify lab supervisors.
- Integrated smartphone motion sensors and WiFi modules to distinguish unconsciousness from regular activity.
- Focused on seamless hardware-software interfacing to ensure usability and reliability in lab environments.

WaveLink – Brain-to-Brain Neural Synchrony Dashboard

Hackathon Project – Nov 2024

- Led a team to build a dual-EEG neural synchronization tool using Python, EEG devices, and deep learning pipeline.
- Built real-time dashboards to visualize brainwave alignment, enabling therapists to optimize engagement.
- Managed a 60-hour development sprint and achieved semi-finalist recognition for innovation.

EventEase – QR Check-In System

Jan 2024 to Mar 2024

- Programmed an event check-in app with QR scanning and attendee database using Java and SQLite.
- Coordinated a 4-person team using GitHub for version control and Agile practices.
- Delivered on schedule with a 4.0 project grade and positive faculty feedback.

Education

B.S in Computer Engineering

Expected Graduation: May 2026

University of Alberta

Relevant Coursework: Data Structures, Algorithms, Real-Time Embedded Systems, Circuit Design

B.S in Business Management, *Leadership Focus*

Graduated: May 2021

Concordia University of Edmonton

Relevant Coursework: Strategic Management, Data Analysis and Decision making, Leadership Communication

Work Experience

Web Designer

Salloum Wealth Management Group – Jun 2022 to Jun 2023

- Developed and redesigned client-facing websites using HTML, CSS, and Photoshop, enhancing user engagement and satisfaction.
- Implemented SEO strategies that grew monthly clicks from under 10 to over 100, improving site visibility.

Awards

Bruce A. McGregor Award for Engineering Communication *University of Alberta*

April 2025

Selected for excellence in technical leadership and communication during the capstone project.

