

PATRICIA SUNDAY

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PROGRAM-RELATED SKILLS

- **Concepts:** Object-Oriented Programming, Agile Development, Design Patterns (DAO, Singleton, Factory, Builder, and more), Testing (JUnit)
- **Operating Systems:** Windows, Unix/Linux (via VMware Workstation Pro)
- **Languages & Frameworks:** Java, Dart, Flutter, SQL, NOSQL, HTML/CSS, PHP, JavaScript
- **Database Systems & Tools:** MySQL, PostgreSQL (pgAdmin), SQL Server, MySQL Workbench, MongoDB, Oracle SQL Developer, Microsoft Access
- **Development Environments & Tools:** Eclipse IDE, Apache NetBeans, VS Code, Android Studio, XAMPP, Git, GitHub
- **Analytics & Networking Tools:** Altair AI Studio/RapidMiner, Power BI, Cisco Packet Tracer

EDUCATION

Computer Programming and Analysis

Sep 2024 – Present

Algonquin College, Ottawa, Canada

- 3-Year Advanced Diploma (Expected 2027)
- 2x Dean's Honours List
- GPA: 3.8/4.0

CURRENT COURSEWORK

- Object-Oriented Programming with Design Patterns (CST8288)
- Business Intelligence & Data Analytics (CST8390)
- Mobile GUI Programming (CST2335)
- Systems Analysis & Design (CST2234)
- Network Programming (CST8109)

PROFESSIONAL SKILLS

- Language: English (Fluent), French (Basic)
- Ability to exercise a systematic thinking approach, anticipating and solving problems
- Accurate use of mathematical operations, accounting for precision loss as well
- Effective time management to submit deliverables on time
- Strong written and verbal communication skills, with experience delivering technical content accessibly
- Ability to organize and navigate technical documentation

ACADEMIC PROJECTS

Agile Project Planning: Property Management System

May 2025 – Present

Systems Analysis and Design, Agile - Word - Excel

- Leading a team through an Agile project process to simulate planning stages of DoorLoop Property Management System
- Compiling detailed documents and charts, including a stakeholder vision document, software requirements specification (SRS), user stories, and unified modelling language (UML) use case diagrams
- Coordinating team collaboration through regular communication and balanced task assignment to ensure timely delivery of project milestones
- Gaining hands-on experience with Agile principles, stakeholder analysis, and other documentation methods

Mobile GUI Programming, Flutter - Dart - EncryptedSharedPreferences - Repository

- Developed a mobile app implementing secure login and user profile management with multi- screen navigation
- Designed and built using the Repository Pattern for clean data management
- Adapted prior SharedPreferences codebase to use EncryptedSharedPreferences for enhanced security
- Integrated device features (phone, SMS, and email URL launchers)
- Maintained version control and branch management using Git and Github within Flutter development environment

Ottawa Award Recipients Database Viewer

Jun 2025

OOP with Design Patterns, Java - JDBC - MySQL - DAO - Singleton

- Created a console-based Java program to retrieve and display detailed information about Ottawa award recipients
- Implemented data access with JDBC connecting to a MySQL database, utilizing prepared statements for secure querying
- Focused on read-only data retrieval and presentation, with an extensible design for future support of input and updates
- Applied object-oriented principles and design patterns, including DAO and Singleton to ensure modular and scalable code

Fitness Tracker Application

Feb 2025

Object Oriented Programming, Java - Eclipse IDE - JUnit

- Developed a console-based Java application to simulate a fitness tracker
- Applied encapsulation to ensure data integrity and access control
- Handled user input and provided dynamic text-based feedback in terminal
- Performed method-level JUnit testing to ensure program functionality

Technical Recommendation Report: VIIRS for Fire Detection

Feb 2025

Technical Communication for Engineering Tech, Word - NASA-FIRMS - Report Analysis

- Composed a 10+ page formal report on Visible Infrared Imaging Radiometer Suite (VIIRS) satellite sensors for wildfire prevention in California
- Organized efficient document navigation using headings, citations, a table of contents, and image captions
- Delivered a recommendation based on research criteria and critical evaluation using step-by- step analysis

Sewing Shop Management System Feb 2025 – Feb 2025

Database Systems, SQL – SQL Server Management Studio – Microsoft Access

- Led a team project to design a shop management system, with back-end data in SQL Server and front-end UI in Access
- Linked database tables and integrated them into a user-friendly Access application
- Designed queries, forms, and reports for simpler user-friendly data entry and general usability

Personal Portfolio Website

May 2025 – Present

HTML/PHP - Tailwind CSS – JavaScript – VSCode - Git/Github - Docker

- Developed a personal portfolio website from scratch using HTML and PHP
- Self-taught Tailwind CSS to display a clean and modern UI
- Wrote a basic Dockerfile to create a consistent environment for running the service
- Applied version control using Git, and connecting Github with Render for easy update deployment
- Improved folder structure, following industry practices to allow web hosting and easier file maintenance