# BRADLEY-HANS DESMORNES

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## EDUCATION

**University of Ottawa** — Sept. 2023 – Apr. 2027
*B.Sc.A in Software Engineering* — *Ottawa, ON*
- Relevant Courses: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Computer Architecture

## PROJECTS

**Narc Recon (NR) – Inventory System** | *Python, SQLite3, Pandas, Tkinter, Excel, Git/GitHub* — 2024 – Present
- Developed and deployed an inventory management system for **Guardian Pharmacy (Hawkesbury)**, replacing paper logs with an **auto-update pipeline** that syncs new drugs automatically.
- Wrote **Pytest** suites for core features to verify functionality and stability before deployment.
- Gathered feedback from pharmacy staff during beta testing and prioritized feature requests and bug fixes to improve usability.
- Integrated audit logs to record all **CRUD** operations for compliance and traceability.
- Implemented an **account lockout mechanism** after 3 failed login attempts to mitigate brute-force attacks, following **secure coding best practices**.
- Streamlined reconciliation workflows, improved tracking accuracy, and saved staff several hours per week.

## EXPERIENCE

**Voith Paper** — Aug. 2025 – Present
*Production Engineering Intern* — *Hawkesbury, ON*
- Led a cloud migration project to move the local shared drive to a dual-cloud environment using **AWS** and **SharePoint**.
- Replaced legacy Excel VBA systems with cloud-based workflows using **Power Apps**, **Power Automate**, and **SharePoint**, establishing the foundation for the company's **cloud infrastructure**.
- Built a centralized **SharePoint** database and automated reporting pipeline that consolidates form inputs and reduces report generation time by **50%**.

**uOttawa Engineering Outreach** — Jan 2025 – Apr 2025
*Co-op Instructor* — *Ottawa, ON*
- Delivered **300+ STEM workshops** to over 7,000 students across Ontario, focusing on programming education and hands-on tech activities.
- Improved and delivered coding workshops in **Python**, **JavaScript** (micro:bit, Arduino), and robotics, adapting content for different age groups and classroom settings.
- Collaborated with a high-performing team to resolve technical issues quickly and enhance workshop delivery.
- Earned strong feedback from management, with our cohort recognized as one of the most effective co-op teams to date.

**Shoppers Drug Mart** — Jan 2024 – Present
*Pharmacy Assistant* — *Ottawa, ON*
- Entered and maintained confidential patient data with precision, ensuring compliance with privacy regulations.
- Resolved insurance adjudication issues, balancing efficiency with patient care.
- Trained and mentored new staff, improving onboarding and workflow efficiency.
- Adapted quickly to new pharmacy software and procedures, enhancing task accuracy and reducing processing time.
- Communicated daily with patients and healthcare professionals, strengthening customer service and problem-solving skills.

## TECHNICAL SKILLS

**Programming**: Python (Pandas, Tkinter, Flask, Pytest), Java, React, HTML/CSS, Bootstrap, JavaScript, SQL
**Tools**: Git/GitHub, Gradle, Power Apps, Android Studio, Figma, Microsoft Office, Generative AI (ChatGPT, Copilot)
**Hardware & OS**: Raspberry Pi, Arduino, BBC micro:bit, 3D modeling | Windows, macOS, Linux
**Languages**: English, French, Haitian Creole
**Soft Skills & Interests**: Machine Learning and AI, Communication, Critical thinking

## AWARDS & CERTIFICATIONS

**Bright English Certification** | *C1 (Advanced)* — 2024
- Certified advanced English proficiency, used daily in technical documentation, workshops, and professional communication.