

# DAIZZAH BOTOY

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## SOFTWARE ENGINEER

### PROFESSIONAL SUMMARY

Computer Engineering graduate (Great Distinction) with 16 months of experience building secure web platforms and validating software systems. Proficient in full-stack development using **Python (Django)**, **Java/Kotlin**, and **JavaScript**. Proven track record of delivering paid client projects and modernizing enterprise software in Agile environments.

### EDUCATION

#### Bachelor of Science in Engineering - Computer Engineering

Sept 2019 - Nov 2024

University of Saskatchewan · Saskatoon, SK

- **Honours:** Great Distinction, Dean's Honour Roll (Top 15%)

### TECHNICAL SKILLS

- **Languages:** Python, Java, Kotlin, C++, C, JavaScript, SQL, Verilog
- **Web & Cloud:** Django, React, Node.js, AWS S3, REST APIs, HTML5/CSS3
- **Tools & DevOps:** Docker, Git/GitHub, Linux/Unix, CI/CD, Jira, Wireshark

### PROFESSIONAL EXPERIENCE

#### Full-Stack Developer (Contract)

Sept 2023 - Mar 2024

Capstone Project - Noumerica Data Security Inc.

- **Paid Client Project:** Selected for the USask Level UP program to build a secure medical record platform for a real-world client.
- **Security & Compliance:** Implemented HIPAA/GDPR-compliant features, including role-based access control and encrypted DICOM image uploads to AWS S3.
- **Full-Stack Architecture:** Developed the backend with Django and PostgreSQL and designed a responsive front-end using HTML/CSS/JavaScript.

#### Student Software Developer

May 2022 - Aug 2023

Calian Advanced Technologies · Saskatoon, SK

- **Java to Kotlin Migration:** Refactored legacy Java modules to Kotlin, creating new data classes to support dynamic carrier configurations.
- **Backend Validation:** Authored Python end-to-end system tests to validate C++ backend system control commands, verifying that state changes correctly updated the GUI.
- **System Reliability:** Reduced technical debt by resolving SonarQube complexity issues, improving code maintainability.
- **Agile Development:** Collaborated in a 7+ person Agile team using Jira and Git for version control on Linux-based systems.

### KEY PROJECTS

#### Late Night Thoughts

May 2025 - August 2025

Full-Stack Web App

- Built a real-time journaling platform using **Vanilla JS**, **Tailwind CSS**, and **Supabase**.
- Implemented custom client-side logic to restrict posting times (10PM-5AM) and managed real-time data storage.

#### Smart Parking System

Feb 2024

IoT & Desktop UI

- Simulated a real-time smart parking environment using **Python** and **PyQt5** for the desktop dashboard.
- Integrated a **Raspberry Pi** sensor node to transmit availability data via **MQTT** protocol.