

# LUIS DELOTAVO

☎ 226-347-6772

✉ [luisdelotavo@outlook.com](mailto:luisdelotavo@outlook.com)

🌐 [linkedin.com/in/luisdelotavo](https://www.linkedin.com/in/luisdelotavo)

🐙 [github.com/luisdelotavo](https://github.com/luisdelotavo)

## Education

**University of Western Ontario**

**September 2020 – April 2025**

*Bachelor of Engineering with Co-op, Software Engineering*

*London, ON*

## Relevant Coursework

- Algorithms and Data Structures
- Database Management Systems
- Software Engineering Design
- Software Project Management
- Web Technologies
- Operating Systems
- Computer Applications
- Networking

## Work Experience

**JD Power**

**May 2023 – Current**

*Software Engineering Intern*

*London, ON*

- Managed and resolved over 30 high-priority JIRA tickets focusing on Angular, Node, GCP, Python, and TypeScript technologies, significantly contributing to the progress and success of the AI Cloud Delivery Unit project.
- Led initiatives that boosted unit test coverage from 32% to 78% by implementing rigorous testing protocols with the JEST framework, drastically reducing technical debt for the most frequently used components within the application.
- Conducted detailed code reviews and troubleshooting, identifying defects and proposing improvements. Additionally, dealt with CWE and CVE issues ensuring security and enhancing software quality.

**Glendor Inc.**

**May 2022 – August 2022**

*Software Developer Intern*

*Remote*

- Contributed to the development of the Glendor PHI Sanitizer, a pivotal software designed to identify Protected Health Information (PHI) automatically, using Python, Anaconda, and Spyder.
- Developed and implemented algorithms for accurately identifying and removing PHI from diverse file formats including .txt, .wav, and .hl7, utilizing deepSpeech, hl7, and XML Python libraries.
- Rigorously analyzed and compared over 150 files generated by the PHI software against manually sanitized documents, identifying discrepancies, as a result, improving software accuracy.

## Leadership Experience

**Western Engineering Competition**

**August 2023 – April 2024**

*VP Competitions*

*London, ON*

- Collaboratively designed and implemented an application process for director positions, involving category preference selection, behavioral assessment, and resume submission, deploying the application in early September 2023.
- Directed the Senior Design, Programming, and Re-Engineering competitions, overseeing the development of competition packages, rulebooks, judging criteria, and briefings, ensuring a consistent and accurate representation of competition standards and requirements.

**Western University**

**March 2023**

*Engineering Outreach Ambassador*

*London, ON*

- Demonstrated exceptional communication skills and in-depth program knowledge, contributing to an increase in student engagement and interest at the 2023 Winter Open House. Served as a representative for Software Engineering.

## Projects

**Premier League Predictor, Machine Learning | Python, Jupyter Notebooks**

**November 2022**

- Designed and implemented an 84% accurate predictive model to forecast the outcomes of English Premier League (EPL) football matches, utilizing Python, Jupyter Notebooks, and advanced analytics with the pandas and sklearn libraries.
- Utilized the sklearn library to import a RandomForestClassifier model which is trained with predictors like rolling averages, shots, goals attempted, free-kicks, penalty kicks, and etc.

**Web Music Player | JavaScript, React, MongoDB, Node.js, AWS**

**October 2022**

- Built a web application deployed on AWS that allows users to find and discover music from different artists, genres, and tracks. Additionally, users can create new playlists and add tracks to it.
- Developed and integrated a RESTful framework using Node.js to interface with a MongoDB database, enabling efficient fetching, manipulation, and deletion of data across thousands of entries.

## Technical Skills

**Languages:** Python, Java, C#, SQL, JavaScript, TypeScript, HTML/CSS

**Developer Tools:** Angular, React, Node.js, AWS, Next.js, Tailwind, Google Cloud Platform, Numpy, sklearn

**Technologies:** VS Code, IntelliJ, Git, Anaconda, Spyder, Jupyter Notebooks, Matlab