

LUIS DELOTAVO

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EDUCATION

Western University, BESC in Software Engineering | London, Canada

Apr 2025

- **Extracurriculars:** Vice President of Competitions for Western Engineering Competition, Engineering Outreach Ambassador, Volunteer Note Taker, Boomerz Boxing Club
- **Courses:** Data Structures and Algorithms, Web Technologies, Machine Learning, Artificial Intelligence, Networking, Operating Systems, Cloud Computing, Database Management Systems, Computer Graphics

EXPERIENCE

JD Power, Software Engineering Intern | London, Canada

May 2023 - Aug 2024

- Developed a full-stack data processing web application using Angular, TypeScript, Python, GCP, and Firebase. Enhanced application stability by increasing test coverage to over 60% through extensive unit tests using Jest.
- Implemented functionalities for formatting and processing query results, integrating support for Jira, optimizing email services, disabling api-keys, and enhancing user experience through frontend improvements.
- Played a key role in Agile development cycles by handling a range of tasks from low to high priority tickets, reviewing merge requests, and creating detailed documentation for each release and new feature implementation. Conducted sprint and story planning, estimating story weights to ensure deadlines for releases were consistently met.

Glendor Inc., Software Development Intern | Remote

May 2022 - Aug 2022

- Worked on the PHI Sanitizer team, developing an AI-based system to automatically remove Protected Health Information (PHI) from medical data (images, videos, photos, and voice recordings).
- Led the development of an algorithm to convert HL7 data into XML, enhancing efficiency and accuracy in data processing. Developed an internet scraper to automatically retrieve HL7 headers.

ATN Access, Computer Resource Training Assistant | London, Canada

May 2021 - Sep 2021

- Conducted extensive research and created adaptive training resources for various accessibility tools using PowerPoint and Word. Ensured effectiveness by testing with new users and making necessary adjustments.
- Delivered tailored technology training to clients on computer basics, Microsoft Office, and assistive technologies. Assisted with ergonomic assessments, workstation accommodations, and conducted computer skills assessments.

PROJECTS

Exploring Models: National Basketball Association – Machine Learning Application

Aug 2024

- Developed a full pipeline for predicting NBA game outcomes, including data scraping from basketball-reference.com using Playwright and BeautifulSoup, data parsing with Pandas, and model training with XGBoost, Random Forest, and Ridge Classifiers.
- Enhanced model accuracy to 65% by refining datasets through feature selection, normalization, and cross-validation, with a focus on integrating rolling averages to assess team performance over the last 15 games.

Western Waves – Full-stack Application

Oct 2022

- Built and deployed a web application on AWS EC2 that allows users to discover music from various artists, genres, and tracks. The application includes functionalities such as creating new playlists and browsing music libraries. Utilized JavaScript and React for the frontend, ensuring a seamless and interactive user experience.
- Developed and integrated a RESTful framework using Node.js and Express to interface with a MongoDB database, ensuring efficient data fetching, manipulation, and deletion across thousands of entries. Implemented a secure user registration and authentication system using JSON Web Tokens (JWT).

Xenos – Role Playing Adventure Game

Apr 2022

- Developed a single-player 3D adventure game using Unity and C#, following an iterative software development life cycle. The game includes three environments, five playable characters, and features such as ranged and melee combat, inventory selection, and a currency system, providing players with an immersive and engaging experience.
- Utilized Blender to enhance the effects and animations of player-versus-environment (PvE) combat, adding visual depth and realism to the game.

SKILLS

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|-----------------|---|
| Languages | TypeScript, JavaScript, Python, Java, C, C#, SQL, HTML/CSS |
| Developer Tools | Angular, React, Node.js, Next.js, Numpy, sklearn, RxJS, Jest, Jupyter Notebooks, Confluence, Jira, GitLab, Docker |
| Technologies | Google Cloud Platform (GCP), Amazon Web Services (AWS), Firebase, MongoDB |
| Certifications | Harvard edX Introduction to Programming with Python, Stanford Machine Learning Specialization |