

Nicholas Lam

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EDUCATION

University of Western Ontario, Ivey Business School

London, ON

Honours and Specialization in Computer Science, Honours Business Administration

- **Awards:** Western Scholarship of Distinction: \$2500, Dean's Honor List, GPA: 3.7/4.0
- **Tech Stack:** Python, Java, C, PostgreSQL, HTML & CSS, JavaScript, ReactJS, NodeJS, Express, Pandas

EXPERIENCE

Labatt Brewing Company

Toronto, ON

Automation Engineer

May 2023 - Present

- Conducted and presented analysis of Peoples and Business Services Team (PBS) Manual Processes and suggested end-to-end automation fixes to reduce manual workload for payroll processes by 100% and increase accuracy
- Working with the development team to implement automation tools for the PBS Team using Python and Pandas

CheaprEats

Toronto, ON

Software Engineer

January 2023 - April 2023

- Leveraged Typescript, MongoDB, ReactJS, Node.js, Express, to develop personal finance tracking feature of the app on the SBA backend API, allowing users to track and see their forecasted spending based on spending habits
- Converted Python Lambda functions to RPC endpoints, wrote documentation and testing using JSDOC and Jest

Ivey Business School

Toronto, ON

Research Assistant

June 2022 - Aug 2022

- Assisted Professor Christian Dippel to create a database of faculty information from North American Universities
- Designed and constructed scraping algorithms using Python, BeautifulSoup, Selenium, Pandas, and HTML scraping each university's unique HTML structures and tree designs to collect faculty data and transform them into data files

Relay Financial

Toronto, ON

Data Analyst Intern

May 2021 - Aug 2021

- Strategized with the marketing and engineering team to automate the account application review process ultimately decreasing manual work by 30% as well as increasing efficiency by 25% as auto-acceptance feature was released
- Utilized Postgre-SQL on a Metabase SQL Server to query data charts and tables, creating data visualization assets to display transaction data for specified organizations used in analysis for investor presentations; a specific case was used in identifying the growth of attraction in user account applications from partnership with Nerdwallet

PROJECTS

Room Finder

- Collaborated and built web-application to help students find available study rooms. Designed Arduino light sensors that communicate with RESTful back-end API and update the database in PostgreSQL. Users can see availability per room of each floor, for each residence at UWO and the probability of the room being available in the next 24 hours

MedNow

- Developed a web conferencing platform using React and Socket.io; utilized OpenAI's ChatGPT API, and Agora.io to connect patients to doctors rendering video and audio in real time. Patients are placed in a waiting room where they can communicate with ChatGPT about their symptoms while they wait in the queue. Doctors can log in and see the list of patients in the queue and meet with the first patient in the queue when they are ready to provide consultation

Automation Projects

- **Course Work:** Constructed a webscraper using Selenium, BeautifulSoup 4, and Python to automate the process of accessing my course website. The program takes a specified course of mine, logs in with my credentials, accesses the specified course's week content with the associated Google Drive folder and opens the zoom link for the lecture
- **Networking:** Created a webscraper to source individuals information, constructs their email(s) based on company email format, and sends out formatted emails through my email using smtplib, openpyxl, BS4 and selenium

AWARDS AND CLUBS

- MapleHacks Best Health & Well Being Hackathon Winner, Business 2257 Robert G. Siskind Entrepreneurial Award (1st/250), Simplii Financial Case Competition 1st Place, Relay Financial Start-up Advisory Program 1st Place, Junior Achievement Canadian Company of the Year 1st Place and North American Company of the Year 3rd Place
- Clubs: Western AI Developer, Western Founders Network Projects VP, Western CSUS Full-Stack Developer

INTERESTS

- Speed Typing, Hockey (Maple Leafs) and Basketball (Stephen Curry) fan, Work Station Setups, Healthy Living