YOUSEPH ELKHOULY

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Education

University of Guelph   **September 2023 – April 2027**
Bachelor of Computing, Major in Computer Science   *GPA: 3.7*

Coursework: Data Structures & Algorithms, Discrete structures in computing I & II, Object-Oriented Programming, Linear Algebra, Database Systems & Concepts, Web Development, Parallel Programming, Operating Systems.

Technical Skills

Languages & Database: Python, Java, Javascript, Typescript, SQL, PostgreSQL, MongoDB.
Frameworks & Tools: React, Redux, Express, Spring, Flask, AWS, Docker, Jest, Pytest, Git, CI/CD.

Experience

Stylus Marketing · Software Engineer Intern   **May 2024 – August 2024**
Python · Typescript · PostgreSQL · AWS · React · Express   *Toronto, Ontario, Canada*

- Developed a serverless inventory tracking and management service using AWS Lambda and EventBridge, supporting **50+** clients, and enabling precise monitoring.
- Implemented an event-driven payment processing workflow leveraging AWS SQS, Stripe, and Lambda to handle overdue charges, ensuring reliable retries and accelerating resolution time by **50%**.
- Built front-end components using React to streamline inventory and payment management, enabling real-time updates and eliminating manual tracking efforts by **100%**.

Projects

SyncWatch | Python · Flask · Typescript · React · AWS · Docker

- ∗ Developed a Chrome extension enabling synchronized video playback on platforms like 123Movies, Soap2day, and YouTube for real-time shared viewing experience for multiple users.
- ∗ Built a service using AWS Lambda and DynamoDB to manage client connections, session persistence, and user data. Leveraged WebSockets for real-time video playback synchronization and instant communication.
- ∗ Implemented an intuitive user interface, providing controls for video playback, session management, and user interaction.

Merchant | TypeScript · Python · React · Flask · AWS · Docker · PostgreSQL

- ∗ Developed a full-stack web application that centralizes listings from various second-hand marketplaces, providing buyers with a unified platform to efficiently find sellers.
- ∗ Created a web scraping pipeline using BeautifulSoup to retrieve and process product information from platforms like Kijiji and Facebook Marketplace.
- ∗ Implemented a notification service using Twilio API to send SMS alerts to users when new postings match their interests.

Statisfy | TypeScript · React · Express · AWS · Docker · PostgreSQL

- ∗ Developed a Chrome extension leveraging TypeScript and React to autofill job application forms and extract applicant details simultaneously.
- ∗ Built a full-stack web application to organize and track job applications, providing automated notifications for status updates.
- ∗ Created web scraping scripts with to independently retrieve candidates' application statuses from job portals like Workday, SSJobs, and SuccessFactors.
- ∗ Designed an email classification system utilizing a Naïve Bayes classifier and Gmail API to detect and filter application-related emails.

Extra Curricular Activities

Google Developer Student Club (GDSC)

- ∗ Helped organize tech-talks and workshops focused on Google technologies, fostering a collaborative and engaging learning environment.