

# Sumer Punjabi

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## EXPERIENCE

### Teaching Assistant

University of Windsor

September 2023 - Present

Windsor, ON

- Instructing COMP-3110: **Intro to Software Engineering**
- Responsible for lab instruction, marking, and holding office hours for over 100 students
- Demonstrated expertise in conveying complex concepts, particularly in concurrency and async programming, contributing to a **20% improvement in student comprehension**

### Software Engineer Intern

CarTrade Tech

June 2023 - August 2023

Mumbai, IN

- Developed a **Groovy** script to convert Jenkins freestyle jobs into pipelines using XML configurations
- Created **Python** scripts to backup Atlassian Data to **AWS** leading to **80% reduction in processing time**
- Designed and deployed a **database micro-service** to view and edit internal databases, used by over 200 employees

### Full Stack Developer Intern

Superblanks

May 2022 - Aug 2022

Windsor, ON

- Designed and developed a real-time dashboard using **React.js** and **Redux** to display website metrics
- Integrated **ML models** into a recommendation system for an e-commerce platform using **TensorFlow**
- Developed advanced **SQL queries** and indexing strategies to speed up data retrieval operations by over **60%**

### Software Engineer Intern

CarTrade Tech

June 2021 - April 2022

Mumbai, IN

- Developed a **JWT authorization** micro-service, achieving a **30% improvement** in authentication response times
- Created a service to upload data concurrently to **Prometheus** using **Go** and **Jenkins** for over 1000 metrics
- Developed and employed a **custom unit testing** framework to thoroughly test various micro-services

## EDUCATION

### University of Windsor

Bachelor of Computer Science Honors | GPA: 3.7/4.0 | Dean's List

Sep. 2021 - Dec 2023

Windsor, ON

## PROJECTS

### Accessible Object Detection App | Flutter, Python, TensorFlow | [GitHub](#)

Aug 2023

- Developed **Flutter** and **Python** app with **TensorFlow** for **real-time object detection**.
- Achieved an **82%** detection rate, ensuring accessibility for disabled users.
- Designed an intuitive UI with voice commands and screen reader compatibility.

### Olympics API | Python, FastAPI, Git, MySQL, Postman | [GitHub](#)

Mar 2023

- **REST API** created to serve historic Olympics data
- Serves data about **athlete, country, participation, and medals**
- Implemented **Unit Testing** using **Postman**, achieving 100% test coverage

### Encryption Service | Python, Linux, Git, Docker | [GitHub](#)

Feb 2023

- Developed **Python** application with **RSA and AES encryption** capabilities to secure user files and data
- Enabled users to encrypt and decrypt files and directories automatically during system startup and shutdown
- Simplified deployment across environments by creating a **Docker** container, **reducing deployment time by 15%**

## TECHNICAL SKILLS

**Languages:** Python, Java, C#, Go, C, JavaScript, Groovy, Dart, HTML, CSS

**Frameworks:** React, Flask, FastAPI, Selenium, Pandas, Tensorflow, Pytorch, Spring Boot

**Technologies:** Git, Docker, Jenkins, Postman, Unity, Node.js, PostgreSQL, MySQL, REST API