Sumer Punjabi

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Education

University of Windsor September 2021 - December 2023
Bachelor of Computer Science Honors Cumulative GPA: 3.7/4.0

Experience

University of Windsor 09/2023 - present
Teaching Assistant Windsor

- Instructing the course **COMP-3110: Intro to Software Engineering**
- Responsible for lab instruction, marking, and holding office hours for over 100 students
- Demonstrated expertise in conveying concepts leading to a **20% improvement** in student comprehension

CarTrade Tech 06/2023 - 09/2023
Software Engineer Intern Mumbai

- 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 microservice**, used by over 200 employees

Superblanks 05/2022 - 09/2022
Full Stack Developer Intern Windsor

- 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%**

CarTrade Tech 06/2021 - 04/2022
Software Engineer Intern Mumbai

- Developed a **JWT authorization microservice**, achieving a **30% decrease** 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 microservices

Projects

Accessible Object Detection App https://github.com/sumerpunjabi/AODA

- 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 https://github.com/sumerpunjabi/olympics-api

- **REST API** created to serve historic Olympics data
- Serves data about **athlete, country, participation, and medals**
- Implemented robust **Unit Testing suite** using **Postman**

Directory Encryption https://github.com/sumerpunjabi/Directory-Encryption

- 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

Code Monitoring Tool https://github.com/sumerpunjabi/CodeMonitoringTool

- Implemented code quality monitoring using Codacy metrics and **Grafana** using **Prometheus**
- Metrics are concurrently pushed to Prometheus achieving **real-time** graphs for efficient monitoring

Extra-Curriculars

- **Indian Student Association**: Vice-president of the ISA at UWindsor, led and organized events for Indian students
- **CIMUN**: Under Secretary General of Technology at CIMUN. Oversaw technology integration by developing the event's website and managing all technical operations
- **Tata Marathon**: Raised funds for Concern India Foundation and the education of underprivileged children