SUMER PUNJABI

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EDUCATION

University of Windsor, Windsor, ON, Canada **Expected May 2024**
Bachelor of Science, Computer Science (Honors)
Minor in Mathematics
GPA: 3.3

Cathedral Vidya School, Lonavala, MH, India **June 2019**
International Baccalaureate Diploma

Relevant Coursework: Data Structures and Algorithms; Numerical Analysis for Comp. Sci; Object Oriented Programming using Java; Intro to Software Engineering; Applied Computer Security; Operating Systems Fundamentals; Artificial Intelligence Concepts

SKILLS

Programming Languages: Java, Python, Go, C, C#, SQL, x86 Assembly, HTML, MATLAB

Tools and Frameworks: Git, Docker, Jenkins, MySQL, PostgreSQL, Postman, Unity, React.js

EXPERIENCE

CarTrade.com, Mumbai, Software Engineering Intern Jun 2021 - Apr 2022

- Created automation scripting to concurrently fetch code quality and code smell metrics from Codacy and push them to a Prometheus time-series database sorted based on Github repositories. Grafana was used to create a dashboard to monitor these metrics. The script is written in Go and uses workerpools to concurrently fetch data with blocking to avoid excessive resource usage. The script runs as a cron job using Jenkins.
- Developed a microservice for server-side authorization of user JWT tokens in C# .NET and efficient storage of these tokens using Memcached in Go.
- Implemented unit testing for different microservices using a custom-built testing tool.
- Improved the efficiency and reduced the load time of server-side rendered websites by optimizing and removing unused code.

PROJECTS

Gesture Detection System: Developed a gesture detection system primarily to detect an open palm or closed fist. When a hand is placed in the region of detection, the UI will display if it is a closed fist or open palm or none of them. This project was further extended to play the Google dinosaur game. When the system detects a closed fist, the dinosaur jumps to pass obstacles. Made using Python, OpenCV, Pillow, Numpy.

Food Dictionary API: Returns nutritional information such as calories, fat, serving size in JSON format when queried. The API is made using FastAPI and data is collected from different sources and stored in a MySQL database and is tested using Postman. The database has been normalized to consist of relational tables in third normal form (3NF)

Code Monitoring Tool: Go-CodeMonitor is a code monitoring tool written in Go that collects data from Codacy metrics and uploads them to the Prometheus Gateway using GET requests. Once the data is uploaded to the Gateway, it can be easily visualized using Grafana dashboards. Go-CodeMonitor stores data on code metrics such as complexity, code coverage, and code smells. This data can be used to measure code quality, track project progress over time, and identify areas that require improvement.