Shardool Patel

(647) 546-5759 | shardool_patel@hotmail.com | linkedin.com/in/sp97 | Portfolio website

Skills

- Languages/Frameworks: **Java** (Spring Boot), **Python, C/C++, C#** (.NET),, **Javascript** (ReactJS, Node.js), **TypeScript**, (Angular), **Go.**
- Database Management: Oracle 10/11, Postgresql, NoSQL, GraphQL ,
- DevOps: Ansible, Jenkins, Kubernetes, Azure, webpack
- Machine Learning: scikit-learn, pandas, TensorFlow

Experience

MAY 2019 - PRESENT

ArcelorMittal Dofasco, Hamilton ON - *Software Developer Intern*

- Followed Object Oriented design principles and scrum methodology to build and deploy full-stack applications for internal business users using **.NET, Java** and **Angular**.
- Created standard **Jenkins** Pipelines for all applications cutting configuration time by 99%.
- Optimized SQL queries for various internal and external applications.
- Setup **Kubernetes** on-prem and created pipelines to build containers and deploy to **Azure** registry and Kubernetes cluster.

NOVEMBER 2018 - MAY 2019

Autonomous Robotic and Vehicle Innovations, McMaster University - *Software Developer*

- Implemented pub/sub for a sensor network in an autonomous vehicle using Raspberry Pi and Arduino.
- Worked with different sensors (LIDAR, stereo camera, radar) to implement object classification model.
- Followed **agile** methodology to design, develop and test software.

Projects – startsUp.github.io

TrnTable – **trntable.live**

A web app for hosting/ joining collaborative music sessions. (React, Javascript, CSS, Node.js, NoSQL, HTTP, WebSockets)

- Implemented and deployed Node.js express server with oauth2 authorization flow for Spotify API.
- Designed NoSQL database schema (firestore) to store and update session information across all users.
- Integrated Spotify API to allow users to see their library, play music and create playlists.
- Adding Twitch extension integration with GraphQL + Postgres backend.

DriveSafe - https://github.com/startsUp/DriveSafe

Route Finder that avoids accident-prone zones (Java, Javascript, JavaFX, API Integrations, XML, JSON)

- Implemented algorithms using 1+ Million geolocation data points to find the shortest and safest routes that avoids accident-prone zones.
- Created geolocation data structures to improve algorithm runtime.

LectureBoard – github.com/startsup/lectureboard

WebApp for interactive classroom sessions. Features: Live Q/A, notetaking, highlightings (React, SocketIO, Nodejs)

- Utilized SVG and vector graphics to create a digital whiteboard.
- Used WebSockets with express Node.js server to create sessions.

Node Messenger - github.com/elemaryo/NodeMessenger

Web instant messaging app. (React, Javascript, CSS, Node.js, NoSQL)

- Implemented Firebase authentication service and UI chat components.
- Helped design a custom NoSQL and WebSocket backend to serve chat messages in real-time.

Education

SEPTEMBER 2016 - APRIL 2021

McMaster University, Hamilton ON

Software Engineering & Embedded Systems - 3.9 GPA | Dean's Honor List 2016, 2017, 2018