

# Shardool Patel

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## Skills

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

June 2020 - August 2020

### **Loadlink Technologies (Remote) - Software Engineering Intern**

- Designed and developed interactive data visualization platform leveraging Angular 10 and Google Maps API, giving valuable insights to 18k customers across North America.

MAY 2019 - APRIL 2020

### **ArcelorMittal Dofasco, Hamilton ON - Software Engineering Intern**

- Applied Object Oriented design principles to build REST APIs and UI features for sales platforms using **.NET**, **Java**, and **Angular**.
- Standardized **Jenkins** Pipelines Library for 30+ applications, reducing configuration time by **99%** and maintenance by **87%**.
- Added several feature improvements to the bidding platform for customers across Canada.
- Removed the need for manual dependency management for legacy assembly files by deploying NuGet packages to Azure Artifacts improving developer productivity by **90%**.
- Setup Kubernetes on-premise 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 Engineer**

- 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.
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## Projects – [startsUp.github.io](https://startsUp.github.io)

### **TrnTable** – [trntable.live](https://trntable.live)

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

- Wrote Node.js express server with oauth2 authorization flow for Spotify API.
- Designed NoSQL database schema to store and update session information across all users.
- Integrated Spotify API to allow users to see their library, play music, and create playlists.
- Added Twitch extension integration with React, GraphQL (Hasura), and express server.

### **DriveSafe** – <https://github.com/startsUp/DriveSafe>

Route Finder that avoids accident-prone zones. **Utilized:** Java, Javascript, JavaFX, API Integrations, XML, JSON

- Implemented algorithms using 1+ Million geolocation data points to find the shortest and safest routes.
  - Created geolocation data structures for Google Maps API.
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## Education

### **McMaster University, Hamilton ON** SEPTEMBER 2016 - APRIL 2021

Software Engineering & Embedded Systems - 3.9 GPA

| Dean's Honor List 2016, 2017, 2018

Activities - MacAI (McMaster Artificial Intelligence Society), Intramural Soccer