

Shardool Patel

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Skills

- Languages: **Java, Python, C/C++, C#, Javascript, TypeScript, Go**
 - Frameworks: ReactJS, AngularJS, .NET, Spring Boot, Node.js
 - DevOps: Ansible, Jenkins, Kubernetes, Azure, AWS
 - Machine Learning: scikit-learn, pandas, TensorFlow
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Experience

MAY 2019 - PRESENT

ArcelorMittal Dofasco, Hamilton ON - *Software Developer Intern*

- Applied Object Oriented design principles to build and deploy full-stack applications for internal business users using **.NET, Java** and **Angular**.
- Optimized SQL queries for various internal and external applications.
- Created standard **Jenkins** Pipelines for all applications cutting configuration time by 99%.
- 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.
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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 modular **React** UI components based on vector designs.
- 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.

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.
- Helped design a custom NoSQL database to serve chat messages in real-time.

DriveSafe

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

- Implemented algorithms using OpenStreetMaps data points to find the shortest and safest routes for users. Used JavaFX and WebView to implement UI in Java.
 - Implemented rendering of routes with Google Maps interface.
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Education

SEPTEMBER 2016 - APRIL 2021

McMaster University, Hamilton ON

Software Engineering & Embedded Systems - 3.9 GPA

| Dean's Honor List, 2016 & 2017