Shardool Patel

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Skills

- Proficient in **Java, Python, C/C++, C#, Javascript, Go**
- Experience with **SQL, NoSQL** databases
- Full-stack experience (**Typescript, HTML, CSS, Javascript, C#, Java)**

- Basic Machine Learning Knowledge (Regression, Neural Networks & SVN Models)
- Experience in **DevOps** - setting up Jenkins pipelines, Artifact feeds and servers.

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 CI/CD of all 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 modular **React** UI components based on vector designs. Implemented and deployed Node.js express server with oauth2 authorization flow for Spotify user integration. Designed custom 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. Put fault tolerances in place to ensure system functionality.

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 react on the front-end and WebSockets on the backend 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. Created UI components using React and CSS.

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.

Education

SEPTEMBER 2016 - APRIL 2021

McMaster University, Hamilton ON

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