

# Shardool Patel

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in Shardool

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## EDUCATION

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### McMaster University

*Software Engineering and Embedded Systems; GPA: 3.9;*

Activities & Achievements: MacAI, Intramural Soccer. Dean's Honor List 2017, 18.

Hamilton, ON

*Sept. 2016 – Apr. 2021*

## SKILLS

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- **Languages:** Java, Python, C#, Javascript/HTML/CSS, SQL, GraphQL, Bash
- **Frameworks:** React.js, Angular, Node.js, Spring, Hibernate, Express.js, scikit-learn, pandas
- **DevOps:** Jenkins, Kubernetes, Azure, webpack, Ansible
- **Tools:** Git, Jenkins, GCP, AWS, JWT, OAuth2, JIRA/Azure DevOps, Figma

## EXPERIENCE

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### Loadlink Technologies

*Software Engineering Intern*

Remote

*Jun. 2020 - Aug. 2020*

- Redesigned the core data visualization platform incorporating Material Design to resolve end-user paint points.
- Spearheaded development of the data visualization platform using Angular 10 and Google Maps API, giving valuable insights to **18k customers** across North America.

### ArcelorMittal

*Software Engineering Intern*

Hamilton, ON

*May 2019 - Apr. 2020*

- Applied Object oriented design to build REST API and UI features for sales platforms using .NET, Java, and Angular.
- Standardized Jenkins Pipelines for **30+** applications, reducing configuration time by **99%** and maintenance by **87%**.
- Created and deployed NuGet packages Azure Artifacts improving developer productivity by **90%**.
- Deployed Kubernetes POC on-premise and created pipelines to build and deploy containers to Kubernetes.

### Autonomous Robotic and Vehicle Innovations, McMaster University

*Software Engineer*

Hamilton, ON

*Nov. 2018 - May 2019*

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

## PROJECTS

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### PanPal - MedHacks 2020 Winner (Python, Pandas, Scikit-learn)

Sept. 2020

Using ML to create communities and support groups for COVID-19 patients with similar conditions.

- Spearheaded the development of unsupervised clustering model using K-Means and Spectral Clustering to assign COVID-19 patients into relevant support groups.
- Deployed ML model to GCP and helped team win 2nd place in a **1000+** participant hackathon.

### TrnTable (React, Node.js, Firestore, Spotify API)

Nov. 2019 - Apr. 2020

A web app for hosting real-time music party sessions.

- Built a Node.js express server with oauth2 authorization flow to integrate Spotify API. Used Firestore to allow users to host sessions on a React App.
- Developed a Twitch extension with React and Node.js for viewers to send song requests.

### DriveSafe (Java, Google Maps API, Multi-Threading)

Feb. 2019 - Apr. 2019

Route Finder that avoids accident prone zones.

- Implemented Dijkstra's Algorithm with custom Geo-Location data structure to find the shortest and safest routes from **1 Million+** data points in less than **1 sec**.