

# SHARDOOL PATEL

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## EDUCATION

### McMaster University

Sept. 2016 – April 2021

BEng Software Engineering & Embedded Systems - 3.9 GPA

Hamilton, ON

Experience: **Teaching Assistant** for Software Project Management (3XA3)

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

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, Javascript/HTML/CSS, SQL, NoSQL, GraphQL, Bash

**Frameworks and Libraries:** React.js, Jest, Angular, Node.js, Spring, Hibernate, Express.js, pandas, scikit-learn

**Tools:** Git, Jenkins, GCP, AWS, JIRA/Azure DevOps, Webpack, Unix, Docker, Kubernetes

## EXPERIENCE

### Loadlink Technologies

June 2020 – Sept 2020

Software Engineering Intern

Remote

- Owned the re-design and implementation of the core market-data visualization platform for **18k+** customers.
- Implemented client-side caching strategy and lazy loaded modules to improve load times by **30%**. (*Angular*)
- Developed re-usable modules for searching and visualizing market areas using Google Maps API.

### ArcelorMittal

May 2019 – April 2020

Software Engineering Intern

Hamilton, ON

- Applied Object oriented design to build REST APIs and UI features for sales platforms. (*Java, Angular*).
- Standardized Jenkins Pipelines for **30+** applications, reducing configuration time by **99%** and maintenance by **87%**.
- Created and deployed NuGet packages to Azure Artifacts improving developer productivity by **90%**. (*.NET, SQL*)
- Deployed Kubernetes Cluster on-premise and created pipelines to run QA environment on Kubernetes.

### Autonomous Robotic and Vehicle Innovations

Nov. 2018 – May 2019

Software Engineer

McMaster University

- Led obstacle detection sub-team to implement modules for parsing raw sensor (LIDAR & radar) data.
- Implemented pub/sub topics with (ROS) nodes for on-campus accessibility autonomous vehicle. (*Python*)

## PROJECTS

### PanPal - MedHack Winner | Python, scikit-learn, GCP Prediction platform

Sept. 2020

- Spearheaded the development of a spectral clustering model to assign COVID-19 patients into support groups.
- Deployed ML model to Google Cloud Platform to on-board new patients.
- Won **2nd** place at MedHacks (**1000+** participant Hackathon), based on technical complexity and social impact of the project.

### TrnTable | React, Redux, Jest, TypeScript, NoSQL, OAuth2, Twitch Pub/Sub

Nov. 2019 – Feb. 2020

- Developed and deployed a React web-app to let users host realtime music sessions using their Spotify accounts.
- Deployed a Node.js server with OAuth2 authorization flow for Spotify API.
- Designed NoSQL database schema to store and update session information across **100+** users in realtime.
- Added Twitch extension integration using Twitch pub/sub and Node.js backend.

### DriveSafe | Java, Google Maps API, Multi-Threading

Feb. 2019 – Apr. 2019

- Implemented geo-encoding and hashing to allow **O(log N)** lookup for nearby road in dataset.
- Implemented Dijkstra's algorithm to find the shortest and safest routes from **1 Million+** data points in under **1s**.
- Utilized multi-threading to run UI and data processing tasks in parallel.

## LEADERSHIP

**Workshops Lead - Developer Student Club:** Organized **5** technical events with **150+** combined attendees for the fall 2020 term.