

SHARDOOL PATEL

647-546-5759 | patelshardool@gmail.com | [linkedin.com/in/sp97](https://www.linkedin.com/in/sp97) | github.com/startsup

EDUCATION

McMaster University

BEng Software Engineering & Embedded Systems - 3.9 GPA

- **Teaching Assistant** for Software Project Management (3XA3)
- Mac AI Member, Intramural Soccer participant.
- Dean's Honor List 2017, '18, '19

Expected April 2021

Hamilton, ON

TECHNICAL SKILLS

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

Frameworks and Libraries: React.js, Jest, Angular, Node.js, SpringBoot, Hibernate, Kafka, pandas, scikit-learn

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

EXPERIENCE

Loadlink Technologies

Software Engineering Intern

June 2020 – Sept 2020

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

Software Engineering Intern

May 2019 – April 2020

Hamilton, ON

- Applied Object oriented design to build REST APIs and UI features for sales platforms. (*Java, Angular*).
- Wrote Jenkins Pipeline library 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

Software Engineer

Nov. 2018 – May 2019

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 implementation of a spectral clustering model to assign COVID-19 patients into support groups based on patients' medical records.
- 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, GraphQL*

Jan. 2019

- Single-handedly created the web-app *trntable.live*, that lets users request and vote on music at parties.
- Built a React frontend and Node.js backend with OAuth2 authorization flow for Spotify integration.
- Designed a NoSQL database schema to store and broadcast data efficiently across **100+** users in each session.

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

Feb. 2018 – Apr. 2018

- Implemented geo-encoding and hashing to allow **O(log N)** lookup for nearby road in dataset.
- Developed a modified 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.