

Shardool Patel

shardoolpatel.com

✉ shardool_patel@hotmail.com

☎ (647)-546-5759

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EDUCATION

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. 2020

SKILLS

- **Languages/Frameworks:** Java, Python, C#, C/C++, Javascript, HTML, CSS, TypeScript, Go.
- **Database:** Oracle 10/11, Postgresql, NoSQL, GraphQL
- **DevOps:** Jenkins, Kubernetes, Azure, webpack, Ansible
- **Machine Learning:** scikit-learn, pandas, TensorFlow
- **Other:** Git, JIRA/Azure DevOps, Figma, Bash Scripting, HTTP, JSON

EXPERIENCE

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 interactive 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

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 modified version of Dijkstra's Algorithm to find the shortest and safest routes from **1 Million+** geo-location data points in less than **1 sec**.