Shardool Patel

shardoolpatel.com

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EDUCATION

McMaster University — Hamilton, ON
Software Engineering and Embedded Systems; GPA: 3.9; — *Sept. 2016 – Apr. 2021*
Activities & Achievements: MacAI, Intramural Soccer. Dean's Honor List 2017, 18.

SKILLS

- **Languages**: Java, Python, C#, Javascript/HTML/CSS, SQL, NoSQL, Bash
- **Frameworks**: React.js, Angular, Node.js, Spring, Hibernate, Express.js, GraphQL
- **Tools**: Git, Jenkins, GCP, AWS, JWT, Oauth2, JIRA/Azure DevOps, Unix

EXPERIENCE

Loadlink Technologies — Remote
Software Engineering Intern — *Jun. 2020 - Aug. 2020*
- Redesigned the core data visualization platform and presented new features to resolve key end-user paint points.
- Owned the development of the data visualization platform using Angular and Google Maps API, aiming to give valuable insights to **18k customers** across North America.

ArcelorMittal — Hamilton, ON
Software Engineering Intern — *May 2019 - Apr. 2020*
- Applied Object oriented design to build REST API and UI features for the sales platforms using Java, and 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%**.
- Optimized SQL queries to make the initial order search **45%** faster.
- Followed agile methodology and regularly communicated with business users to develop, test and deliver features.

Autonomous Robotic and Vehicle Innovations, McMaster University — Hamilton, ON
Software Engineer — *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.

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.

LinkUp - **Top 10 GrizzHacks** (Vue.js, Firestore, Google Maps API) — Sept. 2020
A mobile app that promotes physical and mental well-being by bridging the gap between people and sports.
- Integrated Google Maps API with NoSQL database to show nearby sports events based on user's geolocation.

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**.

LEADERSHIP

Google Developer Student Club — McMaster University
Technical Lead - Workshops & Talks — *Sept. 2020 - Present*
- Co-Leading a team of 50+ students to host technical workshops and talks.