Shardool Patel

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Education

McMaster University Sept. 2016 – April 2021
BEng Software Engineering & Embedded Systems - *3.9 GPA* Hamilton, ON
Activities & Achievements: Mac AI, Intramural Soccer. Dean's Honor List 2017, 18.

Technical Skills

Languages: Java, Python, C#, Javascript/HTML/CSS, SQL, NoSQL, GraphQL, Bash
Frameworks: React.js, Angular, Node.js, Spring, Hibernate, Express.js
Tools: Git, Jenkins, GCP, AWS, JIRA/Azure DevOps, Unix, Docker, Kubernetes
Libraries and Standards: pandas, NumPy, scikit-learn, HTTP, JWT, OAuth2, REST

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*)
- Deployed Kubernetes Instance 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 based on technical complexity and social impact at MedHacks (**1000**+ participant Hackathon).

TrnTable | *React, Firebase, OAuth2, Spotify API, 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 hashing for Geo-location data structure to allow **O(1)** location lookup.
- Implemented Dijkstra's algorithm to find the shortest and safest routes from **1 Million**+ data points in under **1s.**
- Followed OOP principles to build high cohesion and low coupling modules.

Leadership

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