KD

KAVISH DOSHI

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EDUCATION

Master of Science, Computer Science   Jun 2020
University of California Davis - Davis, CA
GPA: 3.74/4

Bachelor of Technology, Computer Science and Engineering   May 2018
Vellore Institute of Technology - Vellore, India
GPA: 9.05/10

SKILLS

- Languages: Java, Python, C, C++, Python, JavaScript, SQL, MATLAB, PHP, CSS, HTML

- Databases: SQL Server, My SQL, MongoDB, DynamoDB

- Tools & Libraries: AWS, PyTorch, Grafana, MySQL, Microsoft Azure, Google Cloud Platform, TensorFlow, R, Selenium, Spring

- Technologies: Git, Docker, Athena, UNIX/LINUX

EXPERIENCE

SDE - I, **Amazon**, Aug 2020 - Current, Seattle, WA
- Refactored an entire legacy code service using AWS and Java, optimized the throughput of the service, made the throughput configurable, used multiThreading to make the code fast, and brought up the unit test coverage from 55% to 99%.
- Identified a bug in a system and prevented the entire system from the risk of failing. Implemented solutions to make sure the bug was resolved and also set up monitoring around that system which would make identification of the risks faster in the future.
- Worked on keeping the system healthy by monitoring the services, identifying bugs, solving incoming tickets, making the entire system more resilient.

Student Researcher, **University of California Davis**, Sep 2018 - Jun 2020, Davis, CA
- Created software on Raspberry pi to collect Spo2, Pulse Amplitude Index (PAI), as well as the waveform form, from two Nonin simultaneously. The collected data was used by machine learning/deep learning techniques for further analysis.
- Analyzed breath waveforms using variations of RNN and CNN to detect anomalies in various breathing patterns.

Research Project Intern, **ITC Infotech India Ltd**, Dec 2017 - Jun 2018, Bangalore India
- Made an "Automatic Parking Spot Allocation System" where the driver is directed to an empty parking spot with a help of a mobile app. The system is made using TensorFlow, SSD-Network, Microsoft Azure, and Android Studio.

PUBLICATIONS

- "A Novel System to Collect Dual Pulse Oximetry Data for Critical Congenital Heart Disease Screening Research" in Journal of Clinical and Translational Science - Oct 19, 2020, as the first author.
- "An Efficient Approach To Civil Structures Health Monitoring Using Fog Computing As Clusters Through 5G Network Environment" in publication description advances in Systems Science and Applications (ASSA) - Oct 1, 2018

PROJECTS

- Raft Consensus Protocol: Created a distributed file system on Raft Consensus on WebDAV as file storage using Node.
- Statistical Data Extraction and Visualization: This project aims at extracting statistical data from a C++-based framework using Node and visualizing it on Grafana.It uses Node Js and addons such as Node-GYP, Node-API for data extraction, and Grafana for dashboard creation and data visualization.
- Movie Recommendation System: Constructed a movie recommendation system using Matrix Factorization from Several files containing the list of 1 Million known ratings along with its users and movies and also the list of users and movies that we need to predict the rating of.