

DIGANTH PRAKASH

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Education

University of Texas - Arlington

Master of Science in Computer Science

08/2021 to 05/2023

GPA: 3.33 (Arlington, U.S.A)

Relevant Coursework

Data Analysis and Modelling Techniques, Data Structures and Algorithms, Distributed Systems, Advanced topics in Database Systems, Cloud Computing, Software Design Patterns, Design and Analysis of Algorithms

Technical Skills

Web Development: Javascript, Flask, HTML, CSS, Bootstrap, Typescript

Databases: MySQL, Oracle DB, PostgreSQL, MongoDB and Redis

Languages: Python, C++, Javascript

Cloud Technologies: Amazon Web Services(AWS), Microsoft Azure, Google Cloud Platform - EC2, Lambda, Elastic Beanstalk, S3, CloudWatch, RDS, Redshift, Elastic Cache, App Services, Compute Engine

Development Tools & Methodologies: Jenkins, Statuspage, Eclipse, Android Studio, Docker, Kubernetes, Postman, Visual Studio Code, JIRA, Git, Power BI, Tableau, Confluence, Apache Jmeter, Firebase, Agile, Scrum, Shell scripting

Experience

Bidgely Technologies

03/2019 to 08/2021

Product Engineer (Software)

Bangalore, India

- Revamped scripts for an existing software process, resulting in a 60% reduction in manual intervention.
- Developed AWS lambda system monitor to send out alerts which improved the issue resolution time by 40%.
- Streamlined data retrieval process, resulting in a 70% increase in data ingestion and aggregation throughput.

Nuline Technologies

02/2018 to 04/2018

IoT Intern

Bangalore, India

- Developed 18 test cases using C for controlling the servo motor connected to a Arduino.
- Delivered 11 automation test scripts with python resulting in the decrease of manual effort by 65%.
- Created a web app to integrate sensor data with real-time visualization using tableau.

Projects

Auto-Scaling and Performance Analysis | *AWS, EC2, RDS, Elastic Beanstalk, Docker, Flask, Apache Jmeter, Jenkins*

- Deployed web app on Elastic Beanstalk to perform CRUD activities, run Database queries, and calculate time statistics.
- Implemented Apache Jmeter to assess the performance and perform auto-scaling of on-demand instances.
- Containerized the application with Docker, created a test suite with gradle and setup CI/CD pipeline using Jenkins.

Earthquake Data Analysis and Visualization | *Microsoft Azure, SQL, D3.js, Python, Flask, Redis*

- Deployed web app for data analysis of earthquake dataset and implemented a full CI/CD pipeline.
- Performed k-means clustering and plotted results using D3.js.
- Incorporated Redis/Memcache resulting in a 25% increase in the web app performance.

Car Rental System | *Java, Bootstrap, Google Cloud Platform, Compute Engine, Oracle DB, Android Studio*

- Developed an end to end business solution that allows a user to rent a car, change or delete reservations.
- Created a web app and android app for the user to make reservations and transactions.
- Designed a database model to store user, reservation, insurance and car details.

PI VISION | *Python, Tensor flow, Google Cloud Platform, Raspberry Pi*

- Implemented a sequential CNN for multi-class image classification and pot hole detection.
- Trained the CNN on MS-COCO and custom dataset with 80 object categories and 91 stuff categories.
- Achieved region-based vehicle detection with an accuracy of 93%

Achievements

- Student Co-ordinator at the Six Sense Robotics Club - Indian Institute of Technology, Delhi
- Presented a paper on PI VISION in IEEE International Conference at Indian Institute of Science, Bangalore
- Secured a silver medal in the Indian national aquatic championship held in Jain University, Bangalore