

DEVAL JAYESH PANDYA

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EDUCATION

Master of Science, Computer Science

Arizona State University, Tempe, AZ

August 2022 – May 2024

(4.0/4.0)

Bachelor of Technology, Computer Engineering

Sardar Vallabhbhai National Institute of Technology, Surat (NIT Surat), India

July 2016 – July 2020

(8.04/10.00)

PROFESSIONAL/LEADERSHIP EXPERIENCE

Data Analyst Intern

ANB Systems, LLC. (A DNV Company)

January 2024 – May 2024

Houston, TX

- Developed and deployed a **scalable, automated ML pipeline** using **AWS** services to **streamline model training**, improving **turnaround time and resource efficiency** for various ML models
- Enhanced the company's existing ML architecture by integrating active learning mechanisms and **standardizing workflows**, resulting in **significant reduction of manual processes** and enabling **seamless future model integration** and updates.

Research Aide

Arizona State University

November 2022 – January 2024

Tempe, AZ

- Performance tuned a **CNN-LSTM** model to predict the trajectory of an airplane based on its 3 control surfaces in a **NASA** project.
- Achieved precision of upto **0.04 mm** for predicting the location of a solder joint crack on a PCB using AE sensor data in an **Intel** Project.

Software Engineer

JP Morgan Chase & Co.

August 2020 – August 2022

Mumbai, India

- Managed to **reduce the overhead** of a critical application by **90%** along with increasing its **availability** and **performance**.
- Solved several **production issues** as well as **security vulnerabilities** and also took part in many production deployments for the products.
- Successfully achieved a **modernization** task for an application by updating its authentication methods from **SAML** to **OAuth2**.
- Developed and optimized efficient **SQL routines and procedures** for multiple applications.

Software Engineer Intern

JP Morgan Chase & Co.

May 2019 – July 2019

Mumbai, India

- Created a **cloud-native chatbot** for helping new hires with the on-boarding process **interactively**.
- Developed features like following various **story lines** to help the user with the process.
- Utilized **Kubernetes** clusters to host back-end and front-end servers for improving **performance, security** and **availability**.

Summer Intern

MobileFirst Applications Pvt. Ltd.

May 2018 – July 2018

Ahmedabad, India

- Implemented basic **sentimental analysis on tweets** using **NLP and probabilistic models**.
- Developed a portable **air quality checker** using various gas sensors to collect appropriate data.
- The collected data is then sent to an **online database** using the **WiFi module**.

PROJECTS

VAST 2021 Mini-Challenge 2

January 2023 – May 2023

- Solved the mini-challenge by employing **7 different visualizations** using 6 unique techniques.
- Developed visualizations like innovative **symbol map, route map, node link graph, heat-map, stacked bar chart, and bubble chart**.
- Used Python **Pandas** for processing **GPS** data with about **6M+ rows** in backend and optimizing performance.

Hybrid Cloud Image Processing

August 2022 - December 2022

- Developed an **elastic hybrid cloud application** which runs on **Openstack** as well as **AWS**.
- Created a **restful API** using Openstack instances to upload images to upload to **AWS S3** to be processed using EC2.
- Achieved **load balancing** and **auto-scaling** to spin-up to EC2 instances on demand.

AI Chatbot

May 2019 - July 2019

- Created a **cloud-native chatbot** for helping new hires with the on-boarding process **interactively**.
- Developed features like following various **story lines** to help the user with the process.
- Utilized **Kubernetes** clusters to host back-end and front-end servers for improving **performance, security** and **availability**.

Online Examination System

January 2018 - May 2018

- Developed an **online platform** for taking **exams of students** using Single/Multiple choice questions.
- Incorporated features like **multiple subjects, showing results, history of exams, and automatic grading**.
- Created various **dashboards for students and teachers** with appropriate functionalities for each role.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, Shell Script, MATLAB

Databases: Oracle SQL, MySQL, Neo4j, AWS SimpleDB, AWS DynamoDB, PostgreSQL

Web Technologies: Spring, Spring Boot, Struts, AWS, Openstack, Docker, Kubernetes, Flask, PHP, HTML, CSS, JQuery

Tools: Tensorflow, Pytorch, FastAI, Keras, Pandas, OpenCV, Scikit-learn, Numpy, Linux, Sagemaker