

DEVARSYA PURVESHBHAI SHAH

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Objective

Dedicated software developer proficient in creating efficient and scalable solutions for complex technical challenges, with expertise in Java and Python technologies. Interested in contributing high-quality code and collaborating effectively in cross-functional teams to deliver innovative software products with an urge to contribute to research work in the field of artificial intelligence.

Education

GSFC University, Vadodara, Gujarat, India

July 2021 – July 2025

BTech Computer science and engineering

GPA: 7.75/10

Coursework: Software development, Artificial intelligence, computer vision, cloud computing

Green Valley High School, Vadodara, Gujarat, India

July 2019 – July 2021

junior high school

GPA: 8.3/10

Coursework: Physics, Chemistry, Maths, Computer application

Technical Skills

Languages/Database: C,C++, Python, Java, JavaScript, GO, assembly, PostgreSQL, SQLite, Oracle, MongoDB, Redis

Web Technologies: Django, Fastapi, ReactJS, Vuejs, Gin, Redux, spring, spring-boot, Bootstrap, Tailwind, MUI, redis, SQL alchemy,

Software & Tools: Git, GitHub, Bitbucket, PostmanAPI, Google Cloud Platform

Artificial intelligence conceptual knowledge: Machine learning, natural language processing, deep learning, computer vision, image processing.

Artificial intelligence Technologies: OpenCV, TensorFlow, PyTorch, scikit-image, Fastai, DarknetPy and YOLOv5

Experience

Codewing Technology Private Limited

February 2023 – March 2023

Software Developer Intern

vadodara, Gujarat, India

- Worked as a software developer intern and was responsible for developing an e-commerce web application for a client company named SURC at Codewing Technology Private Limited.
- Developed a fully functional e-commerce website for the SURC company using Django and React, incorporating features such as user authentication, product catalog, shopping cart functionality, payment gateway integration, and order tracking.
- Product Link:<https://surc.in/>

Webdevopen

November 2023 – December 2023

Software Developer Intern

Remote

- Worked as a software developer intern and was responsible for completely contributing to 22 modules of Webdevopen's open-source project.
- Collaborated with a cross-functional team to develop and maintain robust and scalable web applications. Learned new features and enhancements using Node.js, Mongoose, and React. Participated in the entire software development life cycle, from understanding concepts and requirements to deployment.
- All contributions:<https://github.com/DEVARSYASHAH?tab=repositories>

ONGC

December 2023 – January 2024

Software Developer Intern

vadodara, Gujarat, India

- Worked as a software developer intern and was working on the development of a Data and Schema monitoring dashboard named MasterDB for the Epinet data server (servers maintained to store data of different regions) of ONGC.
- Developed 2 web services of 4 tier architecture for fetching data and tracking schema which holds the API KEY, used by MasterDB to compare and maintain a ledger about data and format change in both web services which ables them to implement OCOD standard (One Company One Data) and also allows them to shift their data to cloud to maintain data more efficiently and have a control on data rather than outsourcing the whole central data.
- Two dummy Epinet servers were built by using technologies like Postgres, Django, Vercel, and Django Template language
- MasterDB was built by using technologies like MongoDB, FastAPI, SQLAlchemy, firebase, Google Cloud Platform(App Engine), javascript, Jinja2
- All contributions:<https://github.com/orgs/MasterDB-Assembly/repositories>

Major Projects

SURC- e-commerce website | *react, python, AWS, Bitbucket, [Git](#)*

February – March 2023

- * SURC is a clothing e-commerce website which was developed for SURC company
- * It has user authentication features, a product catalog, shopping cart functionality, payment integration, and order tracking, along with an admin dashboard showing the analysis of sales and order categorical margin.
- * This project was a part of the internship period at Codewing Technologies
- * Project Code Link:<https://github.com/DEVARSYASHAH/lastestsurc>

MateBuck | *Django, Python, SQLite3, [Git](#)*

May – June 2023

- * Development of a platform with combined features of Google Classroom and Research Gate was the main idea behind this project.
- * A centralized platform where anyone can share their notes and important documents with download, validation, and account management features with authentications specifically for any micro tenant organization.
- * Project Code Link:<https://github.com/DEVARSYASHAH/MATEBUCK>

Fertlift Drone | *pizhawk, aurdino, Solidworks, AutoCAD, Google SketchUp, [Git](#)*

February – May 2022

- * Part of GSFC university team dedicated to developing an efficient fertilizer-carrying drone.
- * Contributed to simulation and design team by designing drone body along with research on computer vision-based movement and pressure management logic for the nozzle of fertilizer tank.

parkinson detection system | *OpenCV, NumPy, Scikit-learn, Scikit-image, imutils [Git](#)*

June – August 2022

- * Worked on a Medical Computer Vision project involving Parkinson's Disease Detection by using Histogram of Oriented Gradients (HOG), Machine Learning and OpenCV on the images generated by the Spiral-Wave test. Detected non-uniform patterns and distortions in handwriting through the Spiral-Wave tests and classified images as Parkinson's or Healthy. Used Random Forest Classifier for Spiral images in the dataset and KNN for Wave images along with Histogram of Oriented Gradients (HOG) for quantifying the images before training. Achieved 86.66% accuracy for Spiral and 76.66% accuracy for Wave images in the dataset .
- * Project was for only learning purposes with an accuracy of 82.2 percent. The model was trained on UCI machine learning repository datasets
- * Key Steps:
 - Have trained the network on frontal handwritten images
 - Resized every image to 200×200 pixels from the input images of random sizes
 - Converted each image from RGB to GrayScale to have a single channel using `cv2.cvtColor|`
 - Thresholding the image so that it appears as white on a black background for better feature extraction using `cv2.threshold|`
 - After this , HOG was used to extract features from the images by using `feature.hog|` function
 - For *Spiral* : `RandomForestClassifier|` was used for fitting & For *Wave*: `KNeighborsClassifier|` was used.
- * Project Code Link:<https://github.com/DEVARSYASHAH/PDS>

Ai-based career counseling chatbot | *Rasa, perplexity , spacy, Django, beautiful soap*

october – December 2023

- This project presents the development of a career counseling bot that utilizes web-scraped data to provide users with valuable insights and recommendations for their career choices
- Chatbot was trained based on psychological character traits and aptitude data of an individual by real-time test evaluation which helps them to categorize the decision of selecting their future fields based on both their potential and interest.
- Project Code Link:<https://github.com/DEVARSYASHAH/Hexadeckbot>

Freelancing Projects

Kentron

November 2023– January 2024

- * Kentron was a product of a startup with a future of creating an MVP product that has the vision to preprocess the text, video, and image data of interaction between employees of the company to have backup evidence when any sue or case is registered by an employee against own working organization.
- * Technologies used: React, nextJS, bootstrap, mui, python, Fastapi, Google cloud platform, TensorFlow, Spacy, [Git](#)
- * Kentron consists of multi-tenant architecture with a combination of various modules which includes data and insights extraction from various platforms like recorded Zoom meetings, Outlook, Gmail, Slack, git chats, etc. My contribution was in Slack conversation text preprocessing and big data management, with full responsibility for developing the backend and frontend of Slack tenant in fast API and nextJS which is further connected to other tenant models independently working in another server it makes it robust and fast when multiple organization get involved in this product usage process.
- * Slackprocessing Code Link:<https://github.com/DEVARSYASHAH/slackpreprocessor>
- * AppKENTRONBACKEND Code Link:<https://github.com/DEVARSYASHAH/AppKentronBackend-working>
- * AppKENTRONFRONTEND Code Link:<https://github.com/DEVARSYASHAH/frontend>

Dexter3dprintdetector

May – Sep 2023

- * Development of a tool for monitoring and anomaly detection of 3D Concrete Printing using Computer Vision
- * project consists of an input image of a 3D printed piece of concrete (with a lateral view), the present tool will produce local measurements about the geometry and texture of the observed piece. The geometry measures correspond to the orientation and curvature of the interlayer lines, the width of the printed layers, and the distance of the printing nozzle concerning the last printed layer.
- * The texture measurements are used to provide a region-wise classification of the observed material, either good or one of three anomalous classes: fluid, dry, or tearing. Once the measures are obtained, one histogram per each one of them is calculated.
- * Dexter3dprintdetector Code Link:<https://github.com/DEVARSYASHAH/3dpd>

Soft Skills

Communication: Effective verbal and written communication in English, Hindi and Gujarati.

Leadership: Team management, Decision-making, Problem-solving.

Time Management: Adept at prioritization and organization, ensuring efficient use of time and resources

Creativity: Capable of thinking outside the box and generating innovative ideas.

Hobbies and Interest

Chess: Regular player with a deep understanding of strategy and tactics, with FIDE elo rating of 1400.

Painting: Enthusiastic painter with experience in various forms specializing in abstract painting.

Achievements

SIH INTERNAL HACKATHON

November 2023

- AT SIH internal hackathon we had achieved first place with the project AI-based career counseling chatbot .
- Achievements Images Link:https://drive.google.com/drive/folders/1t6TpQoUdz3hli07UknWzPFS_2LvS48Hy?usp=sharing

Certifications

- **Certificate 1:** JAVA programming
- **Certificate 2 :** CLOUD COMPUTING
- **Certificate 3 :** Google Cloud Security and Operations
- **Certificate 4:** Infrastructure and Application Modernization with Google Cloud
- **Certificate 5 :** Innovating with Data and Google Cloud
- **Certificate 6 :** Digital Transformation with Google Cloud
- Certifications Link:<https://drive.google.com/drive/folders/191hwBy0hDISeALzZGMzgctsv-BLI9jJ7?usp=sharing>