

Ashutosh Dhanda

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Experience

Deloitte

Santiago, Chile
Feb 2022 – Present

Software Developer Full Stack

- Orchestrated workflows using no-code, low-code, and full-code tools; built ML pipelines for enterprise RAG, including data collection and EDA.
- Designed, developed, tested and scaled web apps that serve as generative AI tools, using Fast API and Langchain; implemented CI/CD, user-driven iteration.
- Automated cloud infrastructure provisioning using Terraform; integrated IaC workflows into CI/CD to ensure consistent, reproducible environments with observability using Grafana.
- Developed advanced customer support chatbot that coordinates multiple AI and human agents, using Langgraph.
- Maintained client applications that use Machine Learning Models for giving recommendations to plant operator. (Periodic retrain of ML Models; Code-review, refactoring and documentation of multiple repositories developed CI-CD pipelines for consistency and automation)
- Developed automated monitoring system for up/down time of applications to alert the respective teams. (Python Flask + Airflow Logs + Webex integrations)
- Developed dashboard with consolidated views of relevant metrics for stakeholders. (Python Pandas + SQL Server + Python-Excel)
- Developed functions to fetch and convert data from Time Series Database held in plant IOT System. (OSISoft Pi)

Lythium

Puerto Varas, Chile
June 2021 – February 2022

Senior Software Developer

- Implemented object tracker in OpenCV, to verify count of fish-lots.
- Implemented object detector, using the YOLO algorithm and Darknet framework, to detect people with or without helmets, and / or face masks.
- Designed, developed and maintained desktop application using wxPython, that serves as dashboard for video camera selection and viewing.
- Development of web application to view videos of the terrain, using VueJS and NuxtJS.
- Contributed to backend service development using Go (Golang) for implementing foundational APIs and data processing pipelines supporting video applications.
- Integration of cloud services, such as storage buckets and authentication APIs from GCP and AWS.
- Integration of Firebase database (noSQL) to handle video metadata, Cloudflare API for maintaining and serving Video Library

Avanze

Puerto Montt, Chile
September 2020 – May 2021

Software Developer

- Developed desktop application in C# (Visual Studio) by integration of SDK for RFIDs
- Implemented Hikvision PlayControl SDK (based on C++) to connect existing system to Hikvision NVR.
- Developed web application in Python Flask Framework and OpenCV to create a dashboard of cameras using RTSP protocol.
- Developed multiple APIs for serving cases like OCR (number plate registration), Image processing and communicating with pre-trained models.
- Delivered knowledge transfer to backend team on topics like Machine Learning with a focus on Object Detection and image processing.

Colores de la India

Santiago, Chile
March 2017 – May 2020

Software Developer

- Developed, maintained and scaled retail store e-commerce from ground level. (Python + Django)
- Design and development of sales management applications.
- Integrated Facebook Pixel to drive sales and market the product catalog.
- Developed and implemented of POS sales machine reports. (PyQt + Pos Machine API)
- Mastered the Spanish language, collaborating with multicultural teams.

Icreon

Associate Software Developer

Noida, India
July 2014 – September 2016

- Development of efficient, portable, and reusable modules in PHP and the LARAVEL PHP framework.
- Developed efficient, portable, and reusable modules in PHP within the Laravel PHP framework, contributing to streamlined web application development.
- Acquired hands-on expertise in Python and the Django framework, enabling me to build scalable and robust web applications.
- Proficiently utilized various Integrated Development Environments (IDEs) and collaborative development strategies in a team environment, emphasizing the use of Git version control for project management.
- Leveraged Talend Open Studio for Extract, Transform, Load (ETL) processes, enabling seamless data manipulation and visualization, enhancing data-driven decision-making.
- Demonstrated strong analytical skills to identify and solve complex development challenges effectively.

CMC LTD

Intern

Noida, India
January 2014 – May 2014

- Developed class attendance management system using Java and Oracle SQL.

Tata Consultancy Services

Intern

Buenos Aires, Argentina
August 2012 – September 2012

- Collaborated with a team to develop macros using Visual Basic for Applications (VBA) in Microsoft Excel, streamlining data processing and analysis workflows.
- Successfully completed a project focused on automating the visualization of employee input and output times. This project involved transforming raw data provided by the administrator into insightful visual representations.
- Proficient in Microsoft Excel and VBA, enabling the creation of customized solutions to enhance data-driven decision-making.

Education

MAHARSHI DAYANAND UNIVERSITY

Bachelor of Technology, Computer Science and Engineering

CENTRAL BOARD OF SECONDARY EDUCATION

All India Senior School Certificate Examination

Skills & Interests

TECHNICAL SKILLS:

- **Programming Languages:** Python, JavaScript, Go, C#, SQL
- **Frameworks and Libraries:** Langchain, FastAPI, MERN Stack, OpenCV, Pytorch
- **Tools & Technologies:** IDEs - Pycharm, Cursor; Containerization - Docker, Podman
Orchestration & IaC - Kubernetes, Jenkins, AWS CloudFormation, Terraform; Version Control - Git, Github Actions
- **Collaboration:** Slack, Confluence, Jira, ClickUp, Trello
- **Documentation and Visualization:** Excalidraw, Miro, Lucidchart, Mermaid
- **Certifications:** [AWS AI Practitioner \(AIF - C01\)](#), [Google Generative AI For ML Engineers](#)

LANGUAGES:

- English (Native)
- Hindi (Native)
- Spanish (Native)

INTERESTS AND ACTIVITIES:

- Bouldering, Badminton and swimming
- Networking at industry events
- Exploring emerging technologies and AI Frameworks