

Curriculum Vitae

Abhishek Dhiman

Personal details

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Education

Master Thesis (MSc Aeronautical) at Siemens Energy AB **Finspang, Sweden**
Topic: **Nearest Neighbour Search Method for 3D Data Mapping of CFD Data:** Jan 2024 to June 2024
Heat transfer analysis, ABAQUS subroutine and Fortran programming, search algorithm development

Master of Science in Aeronautical Engineering (2 years, 120 credits) **Linköping, Sweden**
Linköping University, Sweden (abh352@student.liu.se) August 2022 to Present

Bachelor of Aeronautical Engineering **Bengaluru, India**
Dayananda Sagar College of Engineering [Grade: 74.30 % CGPA: 7.82 / 10.0] August 2014 to July 2018
Thesis: “Analysis of Shockwave Boundary Layer interaction & Assessment of Passive Flow Control Device”.

Professional Experience

Accenture **Bengaluru, India**
Senior Software Engineer: Python Developer (Google Cloud Platform) June 2021 to August 2022

- Development of Flask APIs to interact with Graph DB to perform CRUD operations (sparql queries).
- Assisting and enhancing the creation of RDF ontologies for the datasets and medical dictionaries.
- Worked on vulnerabilities fixes in parallel with on-going releases and learned multiple technologies.
- Development and Enhancement of Accenture Data Catalog API services using Flask and Python.
- Development of API wrapper to enhance the component functionality and performance.
- Incorporating HTTP security headers with API wrappers to mitigate security vulnerabilities.
- Profiling and analyzing the code to increase performance and reduce time complexities.
- Helping team with preparation of user stories and conducting KT sessions for the new re-sources.
- Upgrading the Dead Lettering Queue (DLQ) code scripts i.e., Accenture extension for GCP Pub/Sub.
- Ensuring successful deployments of DLQ utility for clients and assisting in end-to-end testing.

Software Engineer: Test Engineering Analyst August 2018 to June 2021

- Led automation task using Selenium-Python for Accenture INTIENT Platform and
- Achieved more than 50% automation for the corresponding release.
- Condensation of automation code templates written in Selenium-Python for the team, increasing the team efficiency by 40% and reducing the deliverable time by 30%.
- Completed python code to automatically check training completion status of employees, reducing manual efforts by approximately 60% - 75%.
- Performed in many releases of Rave Adapter, Data Ingestion, Import Export Utility, TechStack Upgrade etc. and given many hot fixes with Rework efforts less than 3% for all the releases.

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- Designed code snippets for specific complex automation flows and functionalities of application specific modules, increasing release completion time by 30%.
 - Accelerated deliverable time (50% - 60%) by preparing reusable modular automation scripts.
 - Well communicative and displayed leadership qualities within the team, allowing assignment completion in time and with the best quality.

Professional Skills

Technical Skills: Python, MATLAB, FORTRAN programming, Computational Fluid Dynamics, Data Science, Analytical & Statistical skills, Graph and Cloud Databases, Python-Flask, Rest APIs, Selenium, SQL, Automation and Manual Testing

Softwares and Tools: MATLAB, Ansys Workbench, Ansys Fluent, ANSA, ABAQUS, NSC, Graph DB, Py-Charm, IBM-Watson Studio, IBM cloud, Google cloud, Jupyter Lab, GitHub, JIRA Atlassian

Certifications

Digitalization in Aeronautics and Space: Professional Certificate (Verified)	Bengaluru, India
Authorized by Technical University of Munich, COURSERA	July 2021 to September 2021

IBM Data Science: Professional Certificate (Verified)	Bengaluru, India
Offered by IBM, COURSERA. Duration (11 months)	April 2021 to July 2021
Project: https://github.com/sigmasix09/Coursera_Capstone	

ENGR2000X: A Hands-on Introduction to Engineering Simulations (Verified)	Bengaluru, India
Developed by Cornell University, EDX	November 2020 to February 2021

Python: Beyond the Basics, Pluralsight.	Bengaluru, India
Python Programming, Best Practices. Duration (7.5 hours)	October 2020 to January 2021

Mastering Ansys CFD (Level 1), Udemy.	Bengaluru, India
Ansys Fluent, ICEM CFD, CFX, Tech Plot. Duration (20 hours)	August 2020 to October 2020

Probability and Statistics in Data Science using Python(Verified)	Bengaluru, India
Prepared by UCSanDiegoX, EDX. Duration (120 hours)	May 2020 to August 2020

Python Developer: Zero to Mastery, Udemy.	Bengaluru, India
Conducted by Andrei Neagoie. Duration (30.5 hours)	January 2020 to May 2020

Introduction to Programming with MATLAB, Coursera.	Bengaluru, India
Offered by Vanderbilt University, Nashville. Duration (35 hours)	November 2019 to February 2020

Professional in Product Design and Analysis, CADD Centre. (ID: M160892607)	Bengaluru, India
Catia V5, Solidworks, Ansys Workbench, GD & T workshop.	September 2016 to August 2017

Hobbies and Interests

Badminton, Cooking, Long walks, Watching Anime