

ANURAG YADAV

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EDUCATION

Master of Science in Computer Engineering (Data Science)

April 2024

University of Cincinnati, Ohio, USA

4 / 4 GPA

- **Courses:** Intelligent Data Analysis | Information Retrieval | Big Data Analytics | Cloud Computing | Intelligent Systems | Compiler Design | Computer Architecture

Bachelor of Technology in Electronics and Instrumentation Engineering

September 2020

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India

82.3 % | 8.23 CGPA

- **Courses:** Computer System and Programming in C | Data Structures and Algorithms | Microprocessors and Microcontrollers | Digital Logic Design

PROFESSIONAL EXPERIENCE

Graduate Assistant—DTS CEAS IT, UC, Cincinnati, Ohio

March 2023 – May 2024

- Manage software deployment, GPOs, and Active Directory on Windows Server to ensure secure and efficient computing environment.
- Scripting and license server management for university systems, resolving hardware/software issues and providing desktop support.
- PowerShell Scripting for software and license management, vulnerability fixes, task scheduling.

Application Development Analyst—Accenture, Bengaluru, Karnataka

December 2021 – July 2022

- Designed REST API in Python for interacting with backend application on AWS Kubernetes.
- Multiprocessing python application to handle real-time un-subscription requests from users.
- Python Tool for integrating with legacy system for automating creation of sites based on template.
- ETL workflow scripting in JavaScript for data manipulation between two systems.

Application Development Associate—Accenture, Bengaluru, Karnataka

November 2020 – November 2021

- Managed ServiceNow for SAP Customer Data Cloud solution for client, responsible for on-time response and resolution.
- Dataflow based integration of SAP Sales Cloud and SAP Commerce Cloud.
- Test cases in JavaScript using REST API for system validation and contingency checks.
- WPF application in ASP.NET integrating to MSSQL backend using REST API in C#.
- Won COE (Centre of Excellence) award.

SKILLS

- C++ | Python | C# | Java | C | Embedded C | SQL | Scala | Git | Docker
- TensorFlow | OpenCV | Keras | Topological Data Analysis
- Azure Cloud | AWS Cloud | SAP Customer Data Cloud | SAP Cloud Platform Integration | SAP Sales Cloud
- ASP .NET MVC | JavaScript | Node.JS | ETL Workflows
- SCCM | Active Directory | Bash & PowerShell scripting

PUBLICATIONS AND RESEARCH

- Research Paper on *Higher Dimensional Topological Study Using Resource Efficient Delaunay Triangulation* Submitting to JOCG 2024 Conference Principal Investigator **April 2024**
 - Developed algorithm for computation of Delaunay Triangulation of high-dimensional datasets with reduced memory footprint.
 - High Performance Code in C++ for computation of Algebraic Geometry, using branchless programming.
 - Distributed Algorithm along with Parallel in C++ using MPI for large scale computation of Delaunay Triangulation.
 - Thread Safe Programming using OpenMP for speedup in single node computation of Alpha complex.
 - Integration across C++, Python, and Scala for MAP-Reduce based computation for processing large datasets.
- Research Paper on *Incremental Critical Cells for Homology Characterization* Submitted to KDD 2024 Conference) **August 2024**
 - Implemented Modular version of Incremental Cells algorithm for seamless characterization of homology classes high dimensional dataset for various input datatypes.
 - Parallelization of algorithm across Single Node and Distributed Architecture for speedup of core algorithm.
- Presented a technical paper titled *Wireless Capacitive Charger* at Vigyanam 2019 **February 2019**