

WORK EXPERIENCE

Technical Intern

Intel Corporation , New Mexico

Sept 2023 – Aug 2024

- Developed a full stack Web application to track silicon wafer lots in order to optimize the time spent by a usual process engineer for his/her daily data tasks.
- Hence forth the application developed aggregates data from multiple sources to provide insights about the tools, sub-tools,manufacturing sites, time stamps, status of the lots that go through manufacturing process.
- Implemented end-to-end features like search , pagination , asynchronous data fetching queries , Microsoft IAM based authentication.
- Implemented batch based graph generators using Plotly to generate wafer maps of all the wafers in the lots to visualize the defects.
- Used Next.js for fronted , Django-Rest for backend.
- The project developed is expected to save atleast a 60 minutes for a Process Engineer on his/her daily data tasks.

Research Assistant

Anderson School of Management, University of New Mexico

August 2023 – Present

- Implemented Ardia et al Research paper for the research group use case of generating a News based sentiment Index for topics like Arti cial Intelligence, Cyber-Security.
- Developed ETL pipelines using Proquest databases as data source.
- Implemented NLP techniques like vectorization , used Bi-directional encoders to extract the sentiments.
- Worked with huge databases containing millions of at les to extract the sentiment scores.
- Implemented incremental loading techniques to persist the excerpts of stocks related to climate and cyber-security.
- Participated in discussions regarding a project that deals with experimenting the extraction of sentiments of documents using Large Language Models and Prompt Engineering.

Software Development Engineer - I

Hashedin By Deloitte

Feb 2021 – Aug 2022

- Started as a Intern and passed through a tough coding bootcamp.Immediately started working as SDE-I.
- My work included contributing to Data Analytics projects, and also Devops projects. I contributed to a project that is aimed to develop a testing suite that aids a on shore Devops team to better debug the performance and usability of a particular build.
- one of my keyoutcomes of my work were , I was the rst one to demonstrate our team of experienced engineers about the working of client's project being not provided proper documentation. I read through the whole code base to understand the granular details of the product.

EDUCATION

Masters in Computer Science

University of New Mexico , United States

May 2025

CGPA : 3.60

Bachelor of Technology in Computer Science

Amrita Vishwa Vidyapeetham, India

June 2017 – May 2021

CGPA : 8.31

SKILLS

Bootstrap C/C++ CSS Django
Docker Flask Git Haskell
HTML Java JavaScript
Kubernetes Next.js OpenCv
Plotly Python Pytorch React
SQL

ACADEMIC PROJECTS

- CRYPTO Currency price prediction using LSTM , Sentiment Analysis,and also correlation trend analysis of Crypto Currencies using Pearson Coe ficient Heatmap and Clustering.
- Fraudulent Credit Card transaction detection using Random Forests implemented from scratch, Music genre prediction using Logistic regression implemented from scratch, feature extraction and genre prediction using Convolutional Neural Networks.
- Implemented internet resource Downloader using C from scratch using TCP protocol, implemented DNS crawler using Python , Scapy sand UDP packets. wrote a script that mimics traceroute using TCP syn packets.

COURSE WORK

Algorithms Cloud Computing
Computer Networks
Software Spec i cation Data Mining
DBMS Machine Learning
Operating Systems
Software Engineering
Software Foundations
Software Spec i cation