ELDHO JOY

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EDUCATION

Texas, USA **University of Texas Arlington** **Graduating May 2023**

- Master of Science, Computer Science – Specialization in Artificial Intelligence and Database Systems
- Courses: Artificial Intelligence, Data Analysis and Modelling Techniques, Database Systems, Neural Networks, Computer Vision

Kerala, India **Cochin University of Science and Technology** **Aug 2013 – May 2017**

- Bachelor of Technology, Computer Science and Engineering
- Courses: Data Structures and Algorithms, Theory of Computation, Operating Systems, Database, Networking, OOP

LANGUAGES AND TECHNOLOGIES

Languages	Golang, Python, Nodejs, HTML, CSS3, JavaScript, Scala, MATLAB
Databases	MySQL, Microsoft T-SQL, MongoDB, PostgreSQL, Redis, SQLite, Cassandra, Oracle DB PL/SQL
Frameworks	Flask, Expressjs, Keras, Tensorflow, Django, Apache Spark
Libraries	React, Redux, Numpy, Pandas, Matplotlib, Scikit-learn, Bootstrap
Tools/Others	Google Cloud, TFS, CI/CD, Docker, SSIS (ETL), SSRS, Firebase, Git, PowerBI, Figma, Tableau

WORK EXPERIENCE

Graduate Student Assistant **RAID Labs, UTA** **Nov 2021 – Present**

- NSF funded project#2028612 – Analyzed data captured to engineer models for COVID19 supply chain, identified readiness and cost benefits, and migrating data by applying transformation logic. Investigating wide applicability in a large urban environment.

Software Engineer **SellerApp, Bangalore, India** **Dec 2019 – Aug 2021**

- Built scalable microservice to aggregate data from Amazon Advertising and Selling Partner API, improved data ingestion performance by 12% by building concurrent data pipelines.
- Collaborated with Business Analyst to construct keyword classification algorithm. Engineered model enhanced product listing on Amazon by targeting right search terms, cut down wasted ad spend by 15%.
- Integrated rule engine to automate Amazon ad campaigns by assessing recently synced data and executing pre-set rules/actions set by sellers on specific dates, decrease time spend by sellers to optimize ads by 30%.
- Led team of 3 members to design database schemas for storing seller inventory data and to optimize SQL queries, enhanced application performance by 7%.

Software Engineer **Agrima Infotech, Kochi, India** **Nov 2018 – Dec 2019**

- Created B2B RESTful APIs for nutritional analysis and recipes search. Implemented API throttling and tracker, and redesigned an internal web app to manage and monitor API subscriptions for different clients, resulted in an 8% increase in revenue.
- Developed chatbot using Python, Google Dialogflow and integrated with WhatsApp and Telegram, reduced support calls by 15%.
- Built console app to download images and associated labels from ImageNet and OpenImages for training AI models for image detection and recipe recommendation, reduced time collecting and labeling images for AI training.

Junior Software Engineer **CareStack, Trivandrum, India** **May 2017 – Oct 2018**

- Orchestrated ETL pipelines to streamline client onboarding and data extraction process, minimized human effort by 10% and improved data transformation efficiency by 15%.
- Implemented stored procedures and functions in T-SQL to migrate data from competitor to Carestack Platform. Contributed to design, plan and manage data migration process and took ownership of testing all data transformation and extraction activities.
- Constructed console app for data migration, accelerated migration tasks from 14 to 6 weeks, resulted in more contracts from clients. Planned data migration strategy and reverse engineered competitors products to design data mapping to extract data.

ACADEMIC PROJECTS

- Lung Cancer Prediction – Applied Machine Learning techniques such as clustering, regression and classification to combination of clinical data, demographic data and high dimensional genomic data to predict cancer survival rates.
- Health Care System – Developed health care database schema, modelled EER diagram, generated reports using SQL queries and designed front-end to display dynamic reports using Python Flask.

ACTIVITIES

IEEE Student volunteer – Organized various events at College and IEEE Kochi Hub, won IEEE Region 10 Exemplary Student Branch Award - year 2016