

Ananya Katpally

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EDUCATION

The University of Texas at Dallas, USA

Master of Science in Computer Science

Courses: Analysis of Algorithms and Data Structures, Design and Analysis of Algorithms, Database design, Machine Learning, Statistical methods for Data Science, Web Programming Languages, Big Data and Analysis

August 2021 – Present

GPA:3.85

Jawaharlal Nehru Technological University, India

Bachelor of Engineering in Computer Science and Engineering

August 2017 - June 2021

GPA:4.0

TECHNICAL SKILLS

Languages:	Python, Ruby, Java, C/C++
Operating Systems:	Windows, Linux, Unix
Web Technologies :	HTML5, CSS3, JavaScript, Bootstrap, ReactJS
Database Technologies:	MySQL, NoSQL
Tools:	AWS, Git, Jenkins, Jira, Agile, CI/CD, Redis, Kafka, Postman, Docker

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Copart, Dallas, Texas(Ruby on Rails, Kafka)

June 2022 - January 2023

- Worked on automating form generation and document management, which would save \$100K per year for the company.
- Developed REST API microservices for various Front-end applications and business logic. Primarily used Ruby language on Ruby on Rails framework for Back-End and JavaScript, ReactJS for the Front-End. Utilized MySQL database and Redis cache to support the backend.
- Actively worked on multiple production stories and tasks. Peer code review, creating Jenkins build, debugging Solr issues, fixing bugs in QA and production to resolve 10% of the existing open defects and implement new functionalities.

Student Assistant, Department of Computer Science, University of Texas at Dallas(Java, C++)

September 2021 - May 2022

- Employed as the grader for the undergraduate courses CS2337 Programming in Java and CS1337 Programming in C++.
- Assisted the professor in teaching classes, grading assignments, and providing guidance to a class of 50 students to foster their understanding of programming concepts.
- Collaborated with faculty members on research projects, conducting literature reviews and data analysis.

Software Engineer Intern, Ample IT, Hyderabad, India(Python)

May 2021 - July 2021

- Developed the software for a Machine Learning model to verify, digitize, structure, and correlate a set of scanned paper belonging to shipments for the trucking industry to support the factoring process, reducing manual work by 90%.
- Designed the Chargird OCR approach helps better understand the structure of 2D documents. Leveraged TensorFlow, Pytesseract for document analysis.

ACADEMIC PROJECTS

COVID-19 Analysis(Python, Flask, NumPy, Pandas, TensorFlow)

- Designed a predictive model to determine whether a person is affected by COVID-19 or not.
- It acts as a simple lab test at home. Utilizes supervised machine learning algorithm, logistic regression, statistical methods to make predictions with a f1 score of 0.85.

Stock Market Prediction(Python)

- Employed RNN using LSTM for stock market prediction and ran 56 trials using different combinations of hyper-parameters to see effects its performance using past 5 years of data. The parameters we chose to tune several hidden layers, number of epochs and learning rate for each stock.
- Proved that the LSTM model could correctly predict the data with the least mean absolute error of 0.025.

Reminders, notepad(Java, Spring, ReactJS)

- Created a simple interactive website using ReactJS, like sticky notes where a user can write and store their to-do list, which works like a remainder system.
- Create APIs using Spring framework for new tasks, manage, delete, sort as well a share them which saved resources for users by 40%.

Online Restaurant Table Reservation System(HTML, CSS, JavaScript, ReactJS)

- Created a website for table reservation system where customers can make reservations at their convenience, reducing phone calls, wait time and enhancing user satisfaction by 50%.
- The system will provide valuable insights into booking patterns, helping the restaurant optimize staffing and resources.

CERTIFICATIONS

- Meta-Frontend Developer Professional Certificate
- Learn to Code with Ruby, Python for everybody, University of Michigan

VOLUNTEER EXPERIENCE

- Spearheaded the IEEE logistics and web development team of around 30 students. Organized and promoted several networking events and workshops with more than 500 attendees from different institutions across the nation.