# Aakriti Kedia

aakriti-kedia.github.io | akedia@ucsd.edu | 858-247-9465 | linkedin/aakriti-kedia | github/aakriti-kedia

## Education

**University of California, San Diego** **Sept 2022 - June 2024**
Master of Science, Computer Science **CGPA 4.0/4.0**

**Birla Institute of Technology, Mesra, Ranchi, India** **July 2016 - July 2020**
Bachelor of Engineering, Information Technology (Gold Medalist; Smart India Hackathon finalist) **CGPA 9.2/10**
*Student organizations*: Technical member at IEEE; Executive member at National Service Scheme

## Technical Skills

- Data Structures, Algorithms, OOP, Distributed systems, Databases, Operating Systems, Docker, Kubernetes
- Go, Java, Python, Flask, APIs, SQL, Linux, C++, Splunk, Grafana, Kafka, Hadoop, Hive
- Artificial Intelligence, Machine Learning, Deep Learning, Data Science

## Professional Experience

**Software Engineer 2, Walmart Global Tech, Bangalore, India** **August 2020 - August 2022**

**Transactional Emails (Java, Cassandra, Memcached, Postman APIs, Tempo CMS, Kafka)**

- Spearheaded personalized banner feature with a 95% CTR in the first release
- Built CMS template for Product managers to add customer targeting attributes
- Implemented pipelines that pushed terabytes of data to cache and Cassandra
- Sent personalized banners as JSON responses to be rendered in email templates
- Rewarded Engineering Excellence Award for remarkable year-round adaptability and agility
- Instructed a 40-member Product Managers cohort familiarizing them with engineering jargon, resulting in a 15% efficacy boost in PM and engineering conversations

**Item Badges (Java, Cassandra, Memcached, Jmeter, Stopa, Grafana, Prometheus, Splunk, Postman, CI/CD)**

- Developed a framework for assigning badges (‘Bestseller’, ‘Holiday Deal’) to Walmart items
- Scaled it for upcoming badges and holiday events
- Optimized API response time to 10ms. Project made 0.5% GMV contribution
- Endorsed with the highest rank award for meticulous contributions during peak holiday period orders

**Software Engineering Winter intern, Walmart Global Tech, Bangalore, India** **January 2020 - July 2020**

**Outlier detection system (C++, Python, Hive, GRPC, Protocol buffers, RocksDb, Docker, Kubernetes)**

- Alpha-released a performance-sensitive platform to exhaustively display multidimensional insights
- Automated it to send inventory, item metadata, and associate rejection stats on a daily basis
- Improved Out-of-Stock item substitute recommendations based on the system reports

**Migration projects (Node.js, Python, Kubernetes, CI/CD, YML, Cloud, WM OneOps, Linux, Bash, Testing)**

- Expedited Node.js to Python test cases migration and received Champion Award for the impactful effort
- Migrated search and reviews VM use-cases to the Walmart Cloud Native Platform saving 16+ VM costs

**Software Engineering Summer intern, Walmart Global Tech, Bangalore, India** **May 2019 - July 2019**

**Item recommender system (Machine Learning, Hive, Spark, Node.js, Hadoop, Confluence)**

- Rigorously analyzed terabytes of customer data in the grocery domain revealing 15+ new insights
- Implemented a word2vec ML model for item recommendations based on the latest cart updates
- Designed UI to validate on-the-fly item recommendations and user experience
- Received a full-time offer and accolades for internship contributions

## Projects

- Sepsis prediction (Deep Learning and Natural Language Processing) Report
  Predicted sepsis in a person based on relevant patient attributes and reports using Logistic Regression and RNN models. Reported 0.87 AUC on MIMIC IV dataset and 200D Pubmed word2vec embeddings
- Cuisine recommender system (Recommender systems and Natural Language Processing) Github
  Recommended restaurant cuisines based on ratings, review text (sentiment analysis), GPS, and price. Strategy reported less than 11% inaccuracy on Google local reviews dataset [1, 2]