

# Aakriti Kedia

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## Education

### University of California, San Diego

Sep 2022 - Dec 2023

Master of Science, Computer Science (Systems and Artificial Intelligence specialization)

GPA 4.0/4.0

Courses: Algorithms, Data Structures, Distributed Systems, Computer Networks, Compiler Construction

### Birla Institute of Technology, Mesra, Ranchi, India

Jul 2016 - Jul 2020

Bachelor of Engineering, Information Technology (**Gold Medalist** among 1000+ students)

GPA 9.2/10.0

Smart India Hackathon finalist, Technical member at IEEE, National Service Scheme Executive

## Technical Skills

**Languages:** Golang, Python, Java, Spring, Rust, C++, SQL, Databases, Object Oriented Programming

**Tools:** REST APIs, Web Application Firewall, AWS, gRPC, Protocol buffers, Docker, Kubernetes, Splunk, Kafka, Spark, Linux, Git

**Technologies:** Cloud Computing, Threat Intelligence, Cybersecurity, Operating Systems, CI/CD

## Professional Experience

### Salesforce

San Francisco, USA

#### Software Engineering Intern, Network Security team

Jun 2023 - Sep 2023

- Engineered a production-ready microservice to preemptively block malicious DDoS IPs on Layer 7

### Walmart Global Tech

Bangalore, India

#### Software Engineer 2, Personalization team

Aug 2020 - Aug 2022

- Developed a distributed scalable framework to assign item badges ('Bestseller', 'Holiday Deal')
- Optimized badge API response time to 10ms for ~1M requests. Project made a 0.5% GMV contribution
- Designed CMS and real-time pipelines to push 10+ terabytes of data to Memcached and Cassandra
- Architected APIs to render personalized banners in emails
- Instructed engineering jargon to 40+ Product managers resulting in 15% efficacy boost in conversations

#### Software Engineering Intern

Jan 2020 - Jul 2020

- Spearheaded a performance-sensitive outlier detection system to exhaustively display multidimensional inventory and associate rejection stats on a daily basis
- Expedited migration of use-cases to Cloud saving 16+ virtual machine costs
- Uncovered 15+ insights from 30 terabytes of customer grocery data
- Created a personalized item recommender using *Word2Vec*

## Academic Projects

### x86 Compiler Construction

Apr 2023 - Jun 2023

- Fabricated a compiler with arithmetic operations, let, if-else, loops, function calls, structural-reference equality, heap modification, and garbage collection

[Github](#)

### Overlay Networks for Lower Latency Routing

Apr 2023 - Jun 2023

- Analyzed the internet topology to identify connectivity and lower ping latency insights. Conducted a UCSD-wide experiment to lower ping latencies with overlay networks

[Github](#)

### SurfStore

Jan 2023 - Mar 2023

- Implemented a fault-tolerant and scalable file storage service to synchronize files across multiple devices (like DropBox) using Consistent Hashing, RAFT, and gRPC

### Wordle Bot

Jan 2023 - Mar 2023

- Programmed a bot with correct word guessing ability (using heuristics) in less than 5 trials

[Github](#)

## Awards and Achievements

- Pitched idea to help high-tech companies leverage AI to attain Sustainability and won the **4th Annual Global Intern Pitch Competition** at Salesforce **Aug 2023**
- Appointed as Grace Hopper Conference **Open Source Day Mentor** **Jun 2023**
- Rewarded Walmart **Engineering Excellence Award** for remarkable year-round agility **Sep 2021**