# Aakriti Kedia

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#### **Education**

## University of California, San Diego

Sep 2022 - Dec 2023

Master of Science, Computer Science (Specialization: Systems and Artificial Intelligence) Graduate Teaching Assistant - Software Tools & Techniques Lab, 300+ students

**GPA 4.0/4.0** 

#### 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, Rust, C++, C, Bash, SQL, Javascript

Tools: REST APIs, AWS, Git, Docker, Kubernetes, Cassandra, gRPC, Protocol buffers, Splunk, Kafka, Spark, Linux, Istio, Envoy, Spring, Operating Systems, Custom Resource Definition (CRD)

Technologies: Cloud Computing, Object Oriented Programming, Threat Intelligence, Cybersecurity, CI/CD

## **Professional Experience**

**Google LLC** 

Sunnyvale, USA

## Software Engineer 3, Google Cloud

Jan 2024 - Present

Engineering kubernetes controllers at Google Cloud

## Salesforce, Inc.

San Francisco, USA

## **Software Engineering Intern, Network Security**

Jun 2023 - Sep 2023

- Engineered a production-ready microservice to preemptively block malicious DDoS IPs on Layer 7
- Conducted experiments with Envoy and HTTP filters like ext authz to optimize production parameters

#### **Walmart Global Tech**

Bangalore, India

#### Software Engineer 2, Personalization

Aug 2020 - Aug 2022

- Developed a distributed scalable framework to assign 5+ different item badges
- Achieved an optimized 10ms response time for the badge API, contributing 0.5% to company GMV
- Designed CMS and real-time pipelines to push 10+ terabytes of data to Memcached and Cassandra
- Architected APIs with an optimized latency of ~5ms to render personalized banners in emails
- Instructed engineering jargon to 40+ Product managers resulting in 15% efficacy boost in conversations

### Software Engineering Intern, Personalization

Jan 2020 - Jul 2020

- Spearheaded a performance-sensitive outlier detection system to display multidimensional stats
- Migrated use cases to Walmart Cloud saving 16+ virtual machine costs
- Created a personalized next 2 items recommender system using Word2Vec

#### **Academic Projects**

## **x86 Compiler Construction**

Apr 2023 - Jun 2023

 Fabricated a compiler with variable declarations, 5+ arithmetic operations, if-else branches, loops, function calls with arbitrary parameters, heap modification, and garbage collection

#### **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 by ~40ms leveraging 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

Won Salesforce's 4th Annual Global Intern Pitch Competition among 80+ teams

**Aug 2023** 

Appointed as Grace Hopper Conference Open Source Day Mentor, mentored 25 attendees Jun 2023

Rewarded Walmart Engineering Excellence Award for remarkable year-round agility

Sep 2021