

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) GPA 4.0/4.0
Graduate Teaching Assistant - Software Tools & Techniques Lab, 300+ students

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, Envoy
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
- Conducted experiments with Envoy and HTTP filters like ext_authz to optimize production parameters

Walmart Global Tech Bangalore, India
Software Engineer 2, Personalization team 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 team Jan 2020 - Jul 2020

- Spearheaded a performance-sensitive outlier detection system to exhaustively display multidimensional inventory and associate rejection stats daily, within 30 minutes of the first hour
- Expedited migration of use cases to Walmart Cloud saving 16+ virtual machine costs
- Extracted 15+ insights from 30 terabytes of customer grocery data
- 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 [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 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

- Winner of **Salesforce's 4th Annual Global Intern Pitch Competition** with an innovative AI proposal helping high-tech companies attain sustainability, 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