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, Rust, C++, C, Bash, SQL, Javascript
Tools: REST APIs, AWS, Git, Web Application Firewall, Docker, Kubernetes, Cassandra, gRPC, Protocol buffers, Splunk, Kafka, Spark, Linux, Envoy, Spring, Operating Systems
Technologies: Cloud Computing, Object Oriented Programming, Threat Intelligence, Cybersecurity, 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**