Anusha Alangar

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EDUCATION

Master of Science in Computer Science — *GPA: 4.0*　　　　　　　Aug. 2023 – May 2025
Arizona State University　　　　　　　*Tempe, AZ*

EXPERIENCE

Software Engineer Intern　　　　　　　June 2024 – Aug. 2024
National Basketball Association (NBA)　　　　　　　*New York City, NY*
- Worked on B2C features including sports news, ads, catalogs, scores, subscriptions and streaming on NBA.com
- Performed Next.js and Tailwind codebase migrations, abstracting serialization into separate packages, and refactored core authentication APIs for League Pass subscriptions
- Resolved bugs with concurrent VOD streaming, created a framework for granular control over ads serving logic

Machine Learning Engineer　　　　　　　Aug. 2020 – June 2023
Target Corporation　　　　　　　*Bangalore, KA*
- Search team at Target is responsible for AI powered search and recommendation on Target.com, managing the entire lifecycle from search input and autocomplete, to query completion, normalization, and redirection
- Built and maintained enterprise grade cross-functional microservices touching Java, Kotlin, React, Docker, Kubernetes and Elasticsearch, along with associated observability and ops
- Improved user query suggestion ranking by leveraging search prefix prioritization, fuzzy matching, look-up tries and tensor decomposition, leading to large improvements in peak search transaction throughput
- Productionized a Kafka based Tcin Sequence Generator on GCP, serving as an efficient inventory locator that identifies stores containing inventory of a product SKU across all Target outlets
- Developed pipelines for consolidating product information from different Kafka clusters and Redis cache in real-time for high data availability during peak hours
- Migrated sections of Target's tech stack from Java, Spring and MySQL to a distributed architecture using Kotlin, Micronaut and PostgreSQL
- Identified critical fields and re-indexed Target's fork of Metabase that interfaces with MongoDB, resulting in reduced time taken to visualize data from over a minute down to sub 1000ms

PROJECTS

MidLLaMAI: Benchmarking suite for evaluating performance of compressed LLaMA models, focused on finding an optimal balance between different pruning and quantization techniques with varying number of LLM model parameters

Crypticket: An offline capable cryptographic ticket generation and authentication platform using service workers and local storage caching. Built as a responsive PWA from scratch using React, utilizing EdDSA elliptic curve cryptography

Accentrix: A system for accent conversion and classification through mapping MFCCs vectors describing the short-term power spectrum of sound, including a React based web interface

LookUpBloodDB: A platform aimed at locating the nearest blood bank by consolidating availability and interfacing with blood donation databases across organizations, built with Flask and an SQL database exposing a REST API

AWARDS & HONORS

R&D Recognition Award | *Target Corporation*　　　　　　　Oct. 2021
- Developed a high impact product inventory locator across Target outlets in the enterprise search pipeline

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Kotlin, Scala, Go, JavaScript, TypeScript, Maven, Gradle, NPM, Drone, Bash, Git
Frameworks: Node, React, Next.js, Tailwind, Spring Boot, Micronaut, Flask, gRPC, Protobuf, Jest, JUnit, Cypress
Cloud: AWS EC2, EKS, S3, Lambda, GCP, Grafana, Elastic Search, Kibana, Docker, Kubernetes, Miro, Figma
Data: Tomcat, Cassandra, Hadoop, Kafka, Solr, InfluxDB, PostgreSQL, Redis, MongoDB, ZooKeeper, Prometheus