Anusha Alangar

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Education

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

PES University — Bangalore, KA
Bachelor of Engineering in Computer Science — *Aug. 2016 – Aug 2020*

Experience

NBA — New York City, NY
Software Engineer Intern — *June 2024 – Aug. 2024*

- Working in the Direct-to-consumer Product Tech and Ops org, I built and maintained features on NBA.com, covering everything from sports news, advertising, athlete catalogs to live scores, subscriptions and live streaming
- Performed codebase migrations and component refactors, rewriting and abstracting serialization into a separate library, consolidating core APIs and debugging sign-in and auth flow bugs for League Pass subscriptions
- Fixed issues with SEO, CDN and concurrent sessions with VOD streaming, created a framework for granular control over ads criteria, along with several pipelines to synchronize build artifacts across deployment environments

Target — Bangalore, KA
Software Engineer — *Aug. 2020 – June 2023*

- Search Box and Facets team is responsible for AI powered search and recommendation on Target's platform, where I worked to optimize and improve search autocomplete, query normalization, query completion and facet suggestions
- Working with Java, Kotlin, React, Docker and Kubernetes, I improved user query suggestion ranking leveraging search prefix prioritization, fuzzy matching and look-up tries, resulting in higher peak transactions per second
- Developed an end-to-end Tcin Sequence Generator, an efficient product locator that identifies store locations of any product across all Target outlets leveraging Kafka and the Google Cloud Platform
- Built microservices for consolidating product information from different Kafka clusters as well as Redis cache in real-time for high data availability during peak hours, and migrated sections of Target's tech stack from Java, Spring and MySQL to a distributed microservice based 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

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

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

LookUpBloodDB: A comprehensive platform using React and a RESTful Flask and SQL database aimed at locating the nearest blood bank by consolidating availability and interfacing with blood donation databases across organizations

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

Awards & Honors

Recognition Award | *Target* — Oct. 2021

- Built an innovative end-to-end implementation of the Tcin Sequence Generator in the enterprise search pipeline

Technical Skills

Languages: C, C++, Java, Kotlin, Python, 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