Anusha Alangar

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EDUCATION

Master of Science in Computer Science **Expected May 2025**
Arizona State University **Tempe, USA**

Bachelor of Engineering in Computer Science and Engineering **August 2020**
PES University **Bengaluru, India**

TECHNICAL SKILLS

Languages & Build Systems - C, C++, Java, Kotlin, Python, Scala, Go, JavaScript, TypeScript, Maven, Gradle, NPM, Drone, Bash
Libraries - Node.js, React, Next.js, Tailwind, Spring Boot, Micronaut, Flask, gRPC, Protobuf, HAProxy, Jest, JUnit, Cypress
AI - Keras, Tensorflow, PyTorch, Numpy, Pandas, Scikit-learn
Cloud - AWS (EC2, EKS, ECR, S3, Lambda), GCP, Grafana, Elastic Search, Kibana, Docker, Kubernetes, Miro, Figma, Git, Bitbucket
Data - Tomcat, Cassandra, Hadoop, Kafka, Solr, InfluxDB, PostgreSQL, MySQL, Redis, MongoDB, ZooKeeper, Prometheus

EXPERIENCE

Software Engineering Intern **June 2024 - August 2024**
National Basketball Association (NBA) **New Jersey, USA**
- As a DTC PTO intern, I worked in the team that builds and maintains functionality on NBA.com, covering everything from National Basketball Association news and advertising, athlete catalogues and League Pass to live scores, subscriptions and live streaming.
- Worked on Tailwind CSS migration and various code refactoring including moving common serialization functions to a separate library, and defining JSDocs for event responses by consolidating core APIs.
- Fixed several tricky to debug sign in and auth redirection flow bugs for League Pass subscriptions.
- Audited and updated components used for various placements on NBA.com, including custom interactions on VOD thumbnails.
- Fixed several issues pertaining to VODs in concurrent sessions, and wrote tests for numerous components to increase coverage.
- Tweaked CDN and SEO, setup a way in which advertising criteria can be controlled at a more granular level, and created several pipelines to synchronize artifacts in different deployment environments.

Software Engineer, Search | Backend / Full Stack **August 2020 - June 2023**
Target Corporation **Bengaluru, India**
- As part of the Search Box and Facets team, I worked to optimize and improve search autocomplete, query normalization, query completion and product facet suggestion optimizations on the Target website, working on a wide variety of tech stacks incorporating Java, Kotlin, Kafka, GCP, and cloud native technologies.
- Improved user query suggestion ranking leveraging search prefix prioritization, fuzzy matching and look-up tries, resulting in higher peak Transactions Per Hour.
- Built Tcin Sequence Generator, an efficient product locator that identifies store locations of any given product across all Target outlets.
- Developed a service that consolidates product information from different Kafka clusters as well as Redis cache in real time for high data availability during peak.
- Worked on migrating Target's tech stack from Java / Spring Boot / MySQL to Kotlin / Micronaut / PostgreSQL, and to a distributed micro service based architecture.
- Was instrumental in developing Target's company-wide employee onboarding platform.
- 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.

Web Development Intern, Full Stack **January 2020 - February 2020**
Donti Technologies **Bengaluru, India**
- Developed a new company website with a comprehensive new interface using React, including a new shopping cart system.

PROJECT EXPERIENCE

- Accentrix – Designed a machine learning system for performing accent conversion and classification through mapping of Mel Frequency Cepstral Coefficients (MFCCs, vector features describing the short-term power spectrum of sound). Source accent MFCCs are passed through a vector transformer resulting in target accent MFCCs. A classifier then gauges the resemblance of converted MFCCs to target accents. A React web app was developed to serve as an interface.
- Crypticket - Designed and built a network-less cryptographic token generation, management and verification platform by serving a React based Responsive Progressive Web App (PWA) using the Local Storage API, leveraging public key cryptography over an EdDSA Elliptic Curve for digital signature generation and verification.
- LookUpBloodDB - Built a comprehensive platform with a native React interface and a RESTful Flask and SQL backed database aimed at locating the nearest available blood bank by consolidating blood availability and interfacing with blood donation databases across branches and organizations.
- YTrendNet – Analyzed and performed a deep dive into the Kaggle Trending YouTube Video Statistics dataset, leveraging feature attribution and encoding techniques to transform the results of sentiment analysis for training an Artificial Neural Network that infers how long a YouTube video stays trending.

AWARDS & HONORS

Recognition Award | Target Corporation **October 2021**
- For innovating and building an end to end implementation of the Tcin Sequence Generator as part of enterprise search pipeline.