Anirudh Krishnan

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EDUCATION

Arizona State University   **Tempe, AZ**
Master of Science in Computer Science (CGPA: 3.89)   *Aug 2022 - Expected May 2024*
National Institute of Technology, Tiruchirappalli   **Tiruchirappalli, India**
Bachelor of Technology in Chemical Engineering (Minor in Computer Science and Engineering)   *Jul 2016 - Jun 2020*

EXPERIENCE

Fidelity Investments   **Chennai, India**
Software Engineer   *Jul 2020 - Jul 2022*
- Migrated customer-address data from legacy systems using **AWS Glue**, improving efficiency by 50%.
- Developed and redesigned REST services, leveraging **Kafka connectors** for capturing contact info of 10,000+ customers daily.
- Created a **Java micro-service**, validating more than 15000 customer phone numbers daily against the National do-not-call registry.
- Engineered a **Python** platform, querying competitor news from 50+ publicly available sources for weekly newsletters.
- Designed a scalable quality-check framework with **SARIMA** to identify anomalous transactions, achieving a 60% improvement in data checks, while implementing alert mechanisms ensuring superior data quality and integrity.

Software Engineer Intern   *May 2019 - July 2019*
- Modernized a **Spring Boot** micro-service for storing temporary data of potential customers, driving a 15% increase in conversions.
- Introduced an automatic report generation ETL template in **Informatica** for data mismatch, saving 30% of development time.

GMetri   **Bengaluru, India**
Software Engineer Intern   *May 2018 - July 2018*
- Crafted an interactive UI using **React**, **Redux**, and **Redux-saga** for file and folder management, with 90% adoption in a month.
- Engineered a flat video component within the 3D **React360** view, enhancing product visuals resulting in 40% more engagement.
- Redesigned **AWS S3** API wrappers, optimizing file and folder uploads and deletions while reducing network call times by 25ms.

PROJECTS

Apache-Airflow — Code   *Open source*
- Crafted a customizable logger for AWS BatchOperator in Apache Airflow, fetching CloudWatch logs in a separate thread

Cloud Face-app   *Jan 2023 - Apr 2023*
- Developed a scalable face recognition app on AWS Lambda, detecting faces in videos and retrieving student info from DynamoDB
- Implemented AWS Lambda with DynamoDB, ECR, and SQS, processing data for 100 students in 150 seconds.
- Integrated **OpenStack** to trigger AWS Lambda, optimizing resource usage, resulting in a **55%** cost reduction

Hotspot analysis   *Aug 2022 - Nov 2022*
- Applied **Spark, HDFS, and MapReduce** for efficient spatial analysis in a geo-spatial dataset using Scala
- Utilized Spark's capabilities to optimize data processing, performing complex spatial joins and computations
- Implemented Spark-driven spatial joins, **reducing processing time by 40%** for accurate hotspot analysis

Dining application for University   *Feb 2020 - Apr 2020*
- Developed an **Android and Web App** using **React Native** to automate the process of students registering for the dining hall.
- Designed high-fidelity wireframes and translated them into robust re-usable components using **React Native** and Material UI.
- Created a scalable **Django backend** with a RESTful API for communication with the app.

Pragyan Premier League   *Oct 2018 - Jan 2019*
- Developed an innovative online fantasy cricket platform using **Golang**, incorporating algorithmic match simulation.
- Implemented concurrent **goroutines and channels**, providing a 75% faster simulation for **4000+ concurrent users**.
- Developed a cross-platform application using **React Native Web** with a single codebase for both web and Android platforms

TECHNICAL SKILLS

- **Programming**: JavaScript, Java, Python, SQL, PLSQL, NoSQL, C, Go
- **Frameworks and Tools**: Kafka, Spark, Airflow, Spring, MongoDB, Docker, Django, AWS, Git, React, Redux

ACHIEVEMENTS — LEADERSHIP SKILLS

- Received **Excellence-In-Action** award, Fidelity 2022
- **Alchemy Web-ops head 2020**, Technical symposium of Department of Chemical Engineering
- **E-Cell Web-ops head 2020**, Entrepreneurship cell of NIT Trichy
- Secured **Rank 123** in ACM-ICPC Regionals, Amritapuri 2018