

Tanishq Nimale

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[Portfolio](#) | [Linkedin](#) | [Github](#) | [LeetCode](#)

Skills

- **Programming Languages:** Java, Python 3, JavaScript, C#
- **Data Streaming:** Spark, Kafka, SQL, Databricks Platform, PySpark, Snowflake
- **Full-Stack:** React, NodeJS, HTML, CSS, SpringBoot, Web Crawling
- **Tools:** AWS(Amazon Web Services), Docker, Git, Jenkins, Jira
- **Problem Solving:** Data Structures, Algorithms, Mathematics and Basic System Design

Experience

The Citco Group Limited, Pune, India (4 months)

Full Stack Junior Developer

April 2024 - July 2024

- Migrated multiple components of Web application to ExtJS framework. Programmed complex SQL queries to handle millions of rows of data. Implemented backend SpringBoot endpoints to improve the speed of data retrieval by 30%.

Integral Ad Science (Nasdaq: IAS) (1 year 7 months)

Software Intern

July 2022 - May 2023

- Designed and Engineered an SDK for Unity 3D and Unreal gaming engines. Filed 4 patents for this work.
- Designed and Implemented a web crawling code/algorithm that could crawl and store data for 3.6 million apps on Play Store and App Store within 24 hours and update the data every 12 hours, making it 50% faster.
- Conducted a global technical information session for all tech employees on Spark streaming data pipelines in Databricks, covering the implementation of streaming aggregations, pipeline monitoring, and delta tables.

Associate Software Engineer

June 2023 - December 2023

- Outlined Architecture and built a streaming data pipeline in Databricks that handled 5 billion records per month. Reduced duplicate aggregated data to 0.5% for streaming data aggregations using windowing and watermark.
- Developed a Time Travel Module for the data pipelines to enable failure recovery and data reprocessing.
- Migrated Regression tests for a major Java Application from an old stack to a dockerized environment. Reduced the execution time of tests by over 10 times using parallel Docker containerization.

Projects

- **[PlanetStat](#) - Website to Display World Stats:** Planet Stat is a website developed in React, and hosted on AWS Amplify. It has 500 daily impressions and 20 active daily users on average. This website is dedicated to providing up-to-date and essential data like GDP, Debt, Population and other economic data of all the countries worldwide.
- **Unity - Measuring viewability of Advertisements in 3D:** Developed an SDK to measure advertisement metrics for ads displayed in 3D games using C# Unity Engine. Implemented complex mathematical algorithms and methods for accurate measurement, resulting in four patents for the innovations produced in this project.

Patents

The following Patents were Published at the US Patent Office on June 6th, 2024 (Filed in December 2022)

1. Methods, Systems, and Media for Determining Curved Advertisement Viewability in Virtual Environments ([Link](#))
2. Methods, Systems & Media for Determining Viewability of a Content in a Virtual Environment Having Particles ([Link](#))
3. Methods, Systems, and Media for Determining Viewability of Three Dimensional Digital Advertisements ([Link](#))
4. Methods, Systems, and Media for Providing Digital Advertisers with Improved Context for Dynamic WebPages.

Education

Master's in Computer Science, **GPA - 4.0/4.0**

August 2024 - December 2025

The University of Texas at Dallas, Richardson, TX

B.Tech Computer Engineering, **GPA - 3.94/4** (9.86/10)

July 2019 - June 2023

Vishwakarma Institute of Information Technology, Pune, India

Awards & Honors

Jonsson School Dean's Graduate Scholarship

Fall 2024, Spring 2025