

Nidhi Baidur

nidhibaidur@outlook.com , 585-410-7160, Dallas TX, [linkedin.com/in/nidhi-baidur](https://www.linkedin.com/in/nidhi-baidur)

Software Engineer focused on cloud and distributed systems, building scalable backend services and high-performance mobile applications at enterprise scale.

EDUCATION:

Rochester Institute of Technology

BS Computational Mathematics, Cum Laude

Minor: Computer Science, Immersion: Creative Writing

Rochester, New York

Aug 2020 – May 2024

EXPERIENCE:

Ecolab Inc.

Software Engineer - Prep N Print App

Irving, TX

Jul 2024 – Present

Backend and Cloud Engineering

- Owned the end-to-end design and delivery of the backend for Reprint Sharing and Restoration, a high-visibility feature enabling cross-device recovery for 64K locations.
- Built and maintained CI/CD pipelines and automated production deployments for stored procedures, tables, and configuration changes, eliminating manual steps and reducing deployment errors.
- Dived deep into performance bottlenecks and optimized critical stored procedures, reducing query latency and improving reliability under peak load.
- Built Azure Data Factory pipelines to automate ingestion and transformation of operational data, improving data freshness and reducing engineering toil.
- Developed scalable APIs integrated with SQL, Kusto DB, Azure Service Bus, and a queueing system, increasing throughput and fault tolerance for distributed services.
- Wrote clear technical documentation, release notes, and improvement plans, enabling faster onboarding and cross-team alignment.

Frontend and Mobile Development

- Led the design and implementation of the mobile print pipeline for Prep N Print, owning React Native features and Skia-based rendering from preview to printer output, delivering high-accuracy, high-performance printing.
- Implemented label-to-print workflows bridging digital label designs to physical printer execution, ensuring layout fidelity, correct scaling, and accurate output across diverse enterprise printer hardware.
- Partnered with backend, product, and QA teams to ship production-grade mobile features, driving performance, stability, and a consistent cross-platform user experience.

Rochester Institute of Technology

Applied Machine Learning Research Assistant

Rochester, NY

Jul 2022 – May 2024

- o Designed a 95%-accurate ML model for 12-month ENSO forecasting using complex networks introducing a novel approach in a domain with limited long-range predictability.
- o Processed and modeled 500K+ SST datapoints across 75 years, combining time-series analysis, probabilistic methods, and Random Forests with network metrics to optimize performance.
- o **Presented findings** at the **2024 NSBE Conference, RIT Research Symposium (2022-2024)** and recognized with the **Emerson Summer Research Fellowship (2022-2023)**.
- o Awarded the **Advanced Certificate of Achievement**, **RIT Undergraduate Scholar** and **Euler Award for Excellence**, for exceptional contribution.

SKILLS:

- o **Technical:** Python, SQL, Azure, Angular, .NET, React, Java, C, C#
- o **Concepts:** Model Deployment and Evaluation, Optimization, Data Cleaning and Processing, Statistical Modeling, Time Series Forecasting, Regression Analysis, Artificial Intelligence, App Development, DevOps, Agile