

IREISH PUROHIT

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EDUCATION

Arizona State University

Aug 2022 – May 2024

Master of Science: Software Engineering

- Courses : Adv. Data Structures and Algorithms, Web Based Applications, Data Science, Emerging Programming Paradigms

SRM University

Jul 2015 – May 2019

Bachelor of Science: Computer Science & Engineering

- Received First Class with Distinction

TECHNICAL SKILLS

Languages: Python, Typescript, Java, C++, Javascript

Backend: Flask, Express.js, FastAPI, Spring Boot, Hibernate, Prisma

Web Development: React.js, Next.js, TailwindCSS, HTML, Node.js, jQuery

Technology: AWS, GCP, Apache Kafka, LLMs, LangGraph, REST, gRPC, Airflow, Spark, JUnit

Database/OS: PostgreSQL, MS SQL Server, MongoDB, Unix/Linux, MacOS

Platform/Tool: Kubernetes, Git, Docker, Maven, Selenium, Swagger, Jira, Jenkins, GitLab

PROFESSIONAL EXPERIENCE

Full-Stack Engineer Intern

Jan 2025 – present

My Ascend AI

- Delivered 4 critical platform modules: backend architecture, integrated LLM features, Temporal data processing workflows, and a Next.js web application.
- Led the PoC to MVP development process in **collaboration** with CTO, achieving all Phase 1 objectives for launch.

Specialist Programmer

May 2020 – Apr 2022

Infosys, Client: US-Based Commercial Bank

- Re-architected legacy **Java** systems to a microservice-based backend in Spring Boot.
- Built and enhanced 20+ **REST APIs** utilizing the **Spring** framework, that included microservices for core features like Loan Service, Event Notifications, and User Management.
- Implemented automation of invoices and emails that **cut** invoice processing latency for the Loan **service** by **30%**.
- Implemented an event-driven architecture using **Kafka** for analyzing transactions, accelerating anomaly detection.
- Incorporated GitLab CI/CD pipelines integrated with Kubernetes, that **saved** ~20% in infrastructure **costs**.
- **Led** a team of 4 in an **Agile** environment to deliver a custom CRM tool MVP (React.js & PostgreSQL) within **2 months**.

System Engineer Specialist

May 2019 – Apr 2020

Infosys, Client: GlobalFoundries

- Engineered end-to-end **ETL pipelines** on **AWS** to process **5 Million+** records monthly, leveraging Lambda to load data into S3, SQS for orchestration and Glue to automate data cataloging.
- Developed PySpark scripts to merge, transform and load silicon wafer data from S3 to Snowflake.
- Automated ETL workflows using **Airflow**, with Bitbucket Pipelines for CI/CD that **reduced deployment** times.

Software Engineer 1

Jan 2019 – May 2019

PulpData

- Coordinated with a team of 5 individuals to develop an insurance portal backend utilizing **Flask**. Automated routine web tasks with Selenium in Python, significantly reducing manual effort.

PROJECTS

IoT Privacy Assistant [Capstone @ASU] | React Native, Flask, SQL, Docker, AWS

- Directed a group of 4 to build an IoT Assistant prototype app to enhance data privacy that facilitated real-time detection of IoT devices, enabling users to manage data collection practices of nearby devices.

JSON Parser | Python | [Github]

- Created a tool for parsing JSON files and managed edge cases and inconsistencies in JSON data with 99% accuracy.

Identification of Rare Diseases [Capstone @SRM] | Python (pandas, tensorflow, scikit-learn, matplotlib, numpy)

- Addressed the issue of imbalance in health-related datasets. Proposed a novel algorithm, '**k-means-SMOTE**', outperforming traditional algorithms and achieving an average **recall** score of **0.92**.