

# Aryan Malguri

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## Education

### Pennsylvania State University

August 2023 - December 2024

Master of Software Engineering

GPA: 3.89/4

Relevant Coursework: Software Architecture, Distributed Systems, Databases, Mobile Applications, Data Visualization

### Dayananda Sagar College of Engineering

October 2016 - October 2020

Bachelor of Engineering in Electronics and Instrumentation

GPA: 7.96/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Operating Systems, Computer Networks

## Work Experience

### Pennsylvania State University

October 2023 - December 2024

#### Graduate Research Assistant

- Engineered a Django app on Azure Cloud for real-time data analysis, reducing processing time by 40% and demonstrating strong problem-solving skills in a fast-paced research environment.
- Developed an innovative web scraping solution using X-path, streamlined data collection by 60%. Implemented ETL processes and data analytics to create interactive dashboards, improving operational efficiency by 25%.
- Python, Django, Azure Cloud, X-path, ETL, Data Analytics.

### PwC, Bangalore

June 2021 - June 2023

#### Senior Associate

- Engineered a robust Azure solution utilizing Azure Durable Functions and Azure Storage, achieving a 40% reduction in processing time for workflows and a 50% decrease in data retrieval times, while achieving a 99.9% uptime for applications deployed on Azure Web Apps.
- Developed a CI/CD pipeline using Azure DevOps and integrated Azure SQL with Entity Framework, which reduced deployment time by 60% and enhanced database query performance by 45%, leading to a 30% increase in overall application efficiency.
- Node.js, Java, Python, TypeScript, Azure Durable Functions, Azure Web Apps, Azure Blob Storage, .NET Framework, Entity Framework.

### MuSigma, Bangalore

February 2021 - June 2021

#### Software Developer

- Designed and implemented frontend components for an internal application using React, focusing on user-friendly interfaces and responsive design.
- Contributed to RESTful API development and backend functionalities, optimizing performance by 20%. Implemented CI/CD pipelines for streamlined deployment.
- Angular, React, RESTful API, CI/CD, DevOps.

## Project Work

- LinkedIn Post Generator Tool:** Developed an end-to-end GenAI tool using Llama 3.2, LangChain, Streamlit, and Groq to analyze LinkedIn influencers posts and generate new content matching their writing style. Enabled topic extraction, customizable post generation.
- Alternative-Routes in Road Networks:** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination. Developed methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation.
- Student Connect:** Student Connect is an application that enables students to connect with professors via video calls featuring a collaborative whiteboard for sharing ideas or by booking in-person meetings in the college library. The frontend is built with TypeScript and Chakra UI, while the backend uses Node.js and MongoDB. Key features like notifications, the whiteboard, and video calls are powered by Web Sockets.
- Mira Chatbot:** Developed an end-to-end food delivery chatbot using Dialogflow, Python, and FastAPI, handling intents, entities, and contexts. Implemented backend with FastAPI and integrated MySQL for managing user data and orders.

## Technical Skills

**Languages:** C++, Python, Java, TypeScript, Node, SQL, NoSQL

**Technologies & Tools:** Express, Next.js, Tailwind, React, Angular, Spring Boot, ASP.NET Core, Kafka, Redis, Prisma, Socket, GraphQL, jQuery, Git, Azure, Docker, AWS, Jira, Microservices, WebRTC, DevOps, CI/CD, ETL, REST API