

Archit Joshi

+1 (408) 901-9510

aj6082@rit.edu

LinkedIn

GitHub

Portfolio

EDUCATION

• Rochester Institute of Technology

Rochester, NY

Masters in Computer Science (GPA: 3.72 / 4.0)

2022 – 2025

Advanced Certificate in Artificial Intelligence, Data Science

- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, NoSQL/NewSQL Databases, Big Data Analytics
- **Leadership and Engagement** – Graduate Residence Advisor, Service Desk Assistant, Mental Health First Aider, Machine Learning Course Assistant

• Symbiosis Institute of Technology

Pune, India

Bachelors in Information Technology

2015 – 2019

SKILLS

- **Languages** – C#, TypeScript, Java, Python, JavaScript, HTML, CSS
- **Frameworks and Libraries** - .NET Core, Playwright, SpecFlow, Flask, FastAPI, Angular, React, TensorFlow, PyTorch, Pandas, NumPy, SpecFlow, Chart.js
- **Databases and others** – Snowflake, Neo4j, MongoDB, MySQL, PostgreSQL, Azure, AWS, Git, Postman

EXPERIENCE

Full-Stack Software Engineering Co-op, Ecolab

August 2024 - Present

- Engineered reusable Angular components to construct an Analytics dashboard for Ecolab's global product and sales data, enhancing UI consistency and efficiency.
- Created interactive charts (bar, doughnut, line) using Chart.js for intuitive data visualization and incorporated Mixpanel to track dashboard usage analytics.
- Streamlined API endpoints with C# .NET Core, leveraging Azure Redis Caching and LINQ to minimize load times and optimize data retrieval efficiency.
- Optimized Snowflake queries, achieving a 20% improvement in API performance and enabling seamless front-end integration.
- Conducted End-to-End BDD QA testing with Microsoft Playwright and SpecFlow for UI and API validation, ensuring high-quality deliverables.
- Authored front-end unit tests using Karma, enhancing application reliability.
- Facilitated daily scrum meetings and collaborated in an Agile environment through retrospectives and bi-weekly sprint deliveries, ensuring consistent project success.

System Architect, IBM

August 2019 – July 2022

- Managed 9 SAP landscapes, including ECC, ERP and Solution Manager, ensuring smooth operation and optimal performance.
- Enhanced system security by 80% through a robust SAP Gateway security framework and Access Control Lists.
- Implemented Change and Transport Management System for change migration from sandbox to production with 0 downtime.
- Implemented Blueprism automation, reducing errors by 90% and saving 8 hours of manual effort using Python scripts.

PROJECTS

Analyzing Web Composability | Python, MongoDB, Open API Specifications, Swagger, REST, JSON, Flask

- Designed logic to identify directly composable APIs, streamlining integration efforts for developers.
- Achieved 70% web composability with respect to the dataset acquired, implementation, and original research conducted.

MyAnimeList Data Analysis | Big Data, PostgreSQL, MongoDB, NumPy, SQL, JavaScript, NumPy, Apriori Algorithm

- Analyzed and parsed 80M records from the MyAnimeList dataset, using NumPy to analyze user patterns and visualized findings.
- Designed optimized schemas in PostgreSQL and MongoDB improving query performance by 20-30% with strategic indexing.
- Applied the Apriori algorithm to derive association rules with 70% confidence across both database models.

NYC Vehicle Collision Data Analysis | Big Data Analytics, Python, PostgreSQL, Pandas, Folium, Scikit Learn, Branca

- Parsed over 2 million data points from NYC OpenData for collision data to a PostgreSQL schema for efficient storage.
- Conducted data cleaning and exploratory analysis, leveraging Histograms, Time Series charts, and Scatter plots for outliers.
- Employed k-means and agglomeration algorithms to segment data by NYC boroughs, visualizing spatial patterns in the data.

CERTIFICATIONS AND AWARDS

Certifications - Microsoft Data Fundamentals (DP900), Microsoft Azure Fundamentals (AZ900), AWS Certified Cloud Practitioner (CLF-C01).

Awards – IBM Service Excellence Award (Q1 2021), RIT Residence Life Team Player and Community Builder (2024).