

Poulami Das Ghosh

Redmond, WA 98052 | 425866-1506 |
poulamibonnie@gmail.com | <https://www.linkedin.com/in/poulami-das-ghosh/> |
<https://github.com/poulamibonnie>

Summary

I have 9+ years of experience in the software industry. I worked as a backend engineer for 3 years during my tenure in FactSet Research System and 6 years as a data engineer in two of the top IT consulting companies prior to that. In 2023 I took a break to pursue my Master's in computer science and software engineering from the University of Washington. Now that I have almost completed the course work, I am looking forward to get back to work full-time.

Work Experience

SENIOR SOFTWARE ENGINEER

Jul 2020 - Nov 2022

FACTSET RESEARCH SYSTEMS | Hyderabad, India

- Led FactSet Market Aggregate's on-prem to AWS cloud migration, enhancing cloud infrastructure.
- Delivered C++ features, optimized Python/Perl/SQL scripts, managed ETL pipelines, and designed scalable AWS S3 architectures as part of cloud migration.
- Engineered advanced C++ solutions for FactSet Query Language enhancements.
- Deployed Django-based RESTful APIs for a web application, reducing operational workloads by 40%.
- Boosted FMA ecosystem's onboarding efficiency by 65% through Django-enhanced workflows.
- Spearheaded development of a streamlined, customer-centric web application using Python (Django), JavaScript, HTML, and CSS.
- Developed Python-based data quality and stress testing frameworks, improving reliability by 85% under peak loads.
- Collaborated effectively with cross-functional teams to deliver quality software solutions

CONSULTANT

Feb 2017 - Jul 2020

Deloitte | Hyderabad, India

- Architected and executed sophisticated ETL data pipelines leveraging Talend, Informatica, Python, SQL, Shell Scripts.
- Drove multiple data-driven initiatives, encompassing data lake management, analytics, integration, presentation, and cloud data migration projects, optimizing both OLAP and OLTP systems for superior performance and scalability.
- Innovated a Python-based data extraction framework capable of processing multi-lingual datasets reducing customer expenditure by 75%.

ASSOCIATE

Aug 2013 - Jan 2017

COGNIZANT TECHNOLOGY SOLUTIONS | Kolkata, India

- Pioneered the development and implementation of SQL scripts, stored procedures, and advanced ETL jobs to fortify the backend of a KYC application, significantly enhancing operational efficiency.
- Implemented software solutions for following industry best practices, reducing compliance incidents by 90%.

Projects

Comparative Analysis Of Parallel Programming Paradigms

Sep 2023 - Dec 2023

- Directed and collaborated with a team of three to conduct a comprehensive comparative analysis of three leading parallel programming paradigms—Spark, MPI, and MapReduce—against the University of Washington's MASS framework.
- Implemented of large-scale computational geometric algorithms in Java to support the analysis of the parallel programming paradigms.

Screening Gender Representation In Movies using AI/ML

Sep 2023 - Dec 2023

- Collaborated on and spearheaded a pioneering machine learning project that meticulously analysed gender representation and bias within the film industry, employing cutting-edge Machine Learning (ML) and Natural Language Processing (NLP) techniques.
- Architecting and optimizing sophisticated predictive models—Logistic Regression, Random Forest, MultinomialNB, Support Vector Classification—to discern characters' genders from their dialogues with a remarkable model accuracy of 94%.
- Employed the pre trained Empath library to unveil and quantify biases characters encounter, linked to the topics of their conversations and their genders, paving the way for impactful industry insights.

Core Skills

C++, Java, Python, JavaScript, Perl, SQL, PostgreSQL, HTML, CSS, Shell Scripting, AWS EC2, AWS Lambda, Informatica, Talend, Tensorflow, Pytorch, Vertica, Oracle, MS SQL Server, Sybase, FactSet FDB, Cloud Trail., Django, jQuery, OpenMp, MPI, Big Data, Spark, Map Reduce, REST API, Windows, Linux, , Unix, AWS S3, AWS Redshift ,Data Visualization, Data Analysis, Machine Learning Language Models, Natural Language Processing (NLP), Docker.

Education

University of Washington

Sep 2023 - Jun 2025

Master of Science | Computer Science and Software Engineering | Bothell, WA

WEST BENGAL UNIVERSITY OF TECHNOLOGY

Jul 2009 - Jul 2013

Bachelor of Technology | Information Technology | Kolkata, India