**Kumar Saurav**

[ksauravt@gmail.com](mailto:ksauravt@email.com) (617) 685-9950 Cambridge, MA, USA [LinkedIn](http://linkedin.com/in/ksauravt) [GitHub](https://github.com/ksauravt)

**Summary**

Around 8 years of Professional Experience as a Senior Software Engineer – Data Engineering in implementing solutions for Pension funds, banking, ﬁnance, education management, maritime logistics, e-commerce verticals and licensing using Agile methodology., with increasingly responsible roles, developing high-performance on-premises and on-cloud data platforms.

* Successfully led the team to deliver several data science use cases that involved plenty of data engineering.
* G2G solution Integration with other government systems like UAE Smart Pass, DED, MOI.
* **Master in Python** by building many projects in data science, automation, build websites, and apps.
* Used open-source Python libraries to automate Jupiter notebooks created by data scientists with a seamless CI/CD pipeline and Sprint management tools.
* ERP solution development, robust database and application architecture design and implementation.
* Integrating applications with 3rd party services using **middleware application** server, REST APIs and WCF.

**Education**

**Master of Science in Business Analytics (Stem) Expected August 2022** Hult International Business School— Boston, Massachusetts

Relevant courses: Advanced Data Analytics |Data Science Python and R | Machine Learning.

Data Visualization | Data Management & SQL | Data Optimization. Text Analytics and NLP |Data Mining (MySQL, NoSQL, Hadoop, Spark, and Hive) | Algorithmic Trading in Python | Web Application Development

**B-Tech in Computer Science Engineering Jul 2009–July 2013**

Biju Patnaik University of Technology —Odisha, India

**Technical Skills**

**Programming languages:** Python, Java, R, SQL, C#, JavaScript, TypeScript, SQL, Bootstrap 4, HTML5.

**ETL:** Azure Data Factory, Azure Synapse Pipelines, AWS Data Pipeline,SSIS, Apache Spark

**Libraries/APIs**: PySpark , Pandas, NumPy, google maps, jQuery, bootstrap, Payment gateways,

**Frameworks / Technologies:** Azure Databrick, Data Lake, [Apache Airflow](https://www.toptal.com/airflow), Apache Hive, Java web service, Docker, Kubernetes, WCF, SOA, ASP.NET, .Net Core 2 +, Web API, Entity Framework, ORM, NUnit, AngularJs, Angular2+.

**Subversion:** SVN, GIT, TFS.

**Tools:**  Tableau, Postman, Swagger, LINQ pad, ReSharper, NuGet, Jenkins, Visual Studio, Eclipse, JDeveloper, Jupyter, Git desktop, VSCode, Jira.

**Storage:** HBase, SQL Server, MySQL, Oracle SQL Developer, AWS, Azure, ETL, PostgreSQL and Apache Cassandra (NoSQL), JSON, XML.

**Other Skills**: Custom workflow implementation, Code refactoring, documentation, federal service integrations.

**Relevant Expérience**

**Microexcel Technologies** —Dubai, UAE

**Senior Software Data Engineer Sep 2020–Sep 2021**

* Develop covid19 app to predict/ report back to help predict the virus trend and enable us to higher prepare a response strategy, prevent the Covid-19 spread.
* As a part of the Azure-based data platform, I designed and implemented a data lake, data catalogs, DWH use cases integration, ETL pipelines for batch and streaming data from many internal and external data sources of various types, volumes, and formats, and automatically manages the BI Dashboard.
* Designed logical and physical data models for DWH to power up self-service BI.
* Developed a Kafka-based streaming pipeline that supported a thousand transactions processed per second.
* Migrated huge volumes of legacy data from SQL Server database into Azure SQL and Cassandra to kickstart Spark-based data analytics.

**Environments:** Python, R, Java, Tableau, Azure Databrick, Data lake , [Apache Airflow](https://www.toptal.com/airflow), Apache Hive, ETL ,SQL Server, MySQL, Java Webservice, Data Integration, Azure Data Factory, Azure Synapse Pipelines, AWS Data Pipeline,SSIS, Apache Spark , AWS , MySQL, PostgreSQL and Apache Cassandra (NoSQL), JSON, XML, VS Code.

**Abu Dhabi Ports** —Abu Dhabi, UAE **June 2019–Sep 2020**

**Senior Software Data Engineer**

* Designed a data pipeline for a recommendation engine using Spark on Azure for a digital logistics marketplace provider in the UAE.
* Implemented a data pipeline using Python and SQL for automating data preparation for a few models. Used Pandas for final data checks.
* Served as a data engineer for the MAMAR project, collecting and transforming data generated during seaports movements conducted by a third-party service provider.
* Worked on **MARSA** project provides access to various statistical and management reports to allow better visibility and control of port operations and integrated with Maqta Gateway's Shipping Agent and PCS.
* Developed an **ATLP**, a maritime single window provides internal services and facilitate other g2g and c2g services for port community customers like Cargo collection, customs clearance, port security pass issuance, user proﬁle creation.

**Environments:** Python, R, Java, Tableau, Azure Databrick, Data lake , [Apache Airflow](https://www.toptal.com/airflow), Apache Hive, ETL ,SQL Server, MySQL, Java Webservice, Data Integration, Azure Data Factory, Azure Synapse Pipelines, AWS Data Pipeline,SSIS, Apache Spark , AWS , MySQL, PostgreSQL and Apache Cassandra (NoSQL), JSON, XML, VS Code , google maps

**Innovent integrated solutions** —Abu Dhabi, UAE **Nov 2017 – Feb 2019**

**Senior Software Engineer**

* Developed Teacher application tracking system for automating the hiring process within schools and education department that includes registration, application submission, approval, transfer, promotion, resignation, and fees payment.
* Development of G2G data Integration to providing integrated government services by collaborating with strategic partners at the local and federal level.
* Tested programs and databases to identify issues and make necessary modifications.
* Created workflow diagrams to demonstrate processes and timelines.
* Increase the performance and responsiveness of web application using Redis Cache,
* Built utilities for bulk email operations and processing large, structured data in the form of .csv, XML etc.
* Maintained existing applications and designed and delivered new applications.
* Deployment to production environment and assist in end user training.
* Led a team of 4 developers in analysis and rebuild of software from beginning design through completion.

**Environments:** ASP.NET Core, ASP.NET MVC, C#, Angular 6, Entity Framework, bootstrap 4, SOA, SAS, QlikView, Oracle SQL developer, SOAP, REST, WEB APIs, Payment gateway (MiGS), SQL Server, My SQL, Azure, AWS, NUnit, Microservices, SOAP, REST, WEB APIs, TFS, SVN, python.

**National Informatics Centre, Govt of India** —Delhi, India **Jul 2013 – Oct 2017 Software Engineer**

The design, development, and implementation of the “Integrated Financial Management System” for the Government of Sikkim, Development internal Banking Software, India is an e-Governance project funded by the Government of India. Sep 2016 – Oct 2017

Roles and responsibilities:

* Design and implementation of Contractor billing, reporting and KPI Dashboard.
* Worked closely with clients to establish problem specifications and system designs.
* Maintained existing applications and designed and delivered new applications.

**Environments:** ASP.NET, ASP.NET MVC, C#, Entity Framework, AngularJS, bootstrap, Windows Services, Unit Testing, SSRS and MSSQL SERVER.

ERP development of Meghalaya Co-operative Apex Bank Ltd. (MCAB) under NIC (National Informatics Center), Govt. of India.

Aug 2015 – Jul 2016

Roles and responsibilities:

* Involvement in development, UI styling and unit testing.
* Coding and Defect fixing for if found at any level of testing.
* Worked closely with clients to establish problem specifications and system designs.
* Maintained existing applications and designed and delivered new applications.
* Created the report design with a preliminary semantic layer using Crystal Reports

**Environments:** ASP.NET, ASP.NET MVC, C#, AngularJS, bootstrap, Windows Services, Unit Testing, SSRS and MSSQL SERVER.

Financial Software Development and Maintenance of Public Financial Management System (PFMS) under PMO, Govt. of India.

Jul 2013 – Apr 2015

Roles and responsibilities:

* Design, develop, test, support and deploy web applications using .NET.
* Involvement in development, UI styling and unit testing.
* Coding and Defect fixing for if found at any level of testing.

**Environments:** ASP.NET, C#, ADO.Net, bootstrap, Unit Testing, MSSQL SERVER.