SERHAN SARI

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DEVELOPER | ENGINEER | DEVOPS | ANALYST | SCRUM MASTER

PROFILE

10+ Years of performance-driven - Software Engineer | Data Engineer | Analyst experience, armed with broad-based skills and expertise. I am determined to implement my earned skills for the rapid growth of the prospective organization by working effectively and consistently.

TECHNICAL SUMMARY

- **Languages:** *Python, Node JS, GO, SQL, VBA, UNIX, MATLAB*
- **Analytics:** *Statistics & Machine learning using neural nets and regression analysis on large data sets*
- **Databases**: *Postgres, MySql, Sybase, Snowflake, Onelake, NoSQL: MongoDB, DynamoDB*
- **Libraries:** *Pandas, Numpy, PySpark, Celery, Django, Flask, Selenium, boto3, aws-cdk*
- **Caching:** *API Gateway Caching, DAX Caching, Redis Cluster*
- **AWS:** *EC2, Lambda, S3, CloudFormation, Route53, RDS, CloudWatch, AWS SAM*
- **Other:** *REST API, GraphQL, Splunk, Git, Github, GitLab, BitBucket, Jenkins, Docker, New Relic, Terraform, HTML & CSS, JIRA*

PROFESSIONAL EXPERIENCE

Duke Energy | *Software Engineer*   **Jan 2023 - Apr 2023**
- *Built reminder and snoozed notification email*

- *Created Kafka Sink and Source connectors for PostgreSQL*
- *Used splunk to check application logs*
- *Designed architectural frameworks solutions for SaaS that best suits client web application hosting demands in AWS cloud platform, leveraging AWS services such as S3, Lambda, API Gateway, SQS, SNS*
- *Develop key application components using Python (Flask) and RESTful architecture.*
- *Worked with AWS environment (Lambda / RDS / DynamoDB)*

Capital One | *Software Engineer*   **Mar 2021 - Jan 2023**
- *Personal Drive on S3 called userspaces*

- *Proficient with container systems like Docker and container orchestration with Kubernetes and worked with Terraform.*
- *Managed Docker orchestration and Docker containerization with Kubernetes*
- *Designed architectural frameworks solutions for SaaS that best suits client web application hosting demands in AWS cloud platform, leveraging AWS services such as S3, Lambda, API Gateway, SQS, SNS*
- *Develop key application components using Python (Flask) and RESTful architecture.*
- *Worked in AWS environment (S3 / EC2 / ECS / Lambda / RDS)*
- *Developed CLI version of userspaces API*
- *Performed monitoring and security-related enhancement (New Relic)*
- *Worked on the CICD pipeline with Jenkins, Git, SonarQube, Eratacode, Checkmarx*
- *Worked with SQL database (Postgres) and Snowflake*
- *Used splunk to check application logs*
- *Integrated New Relic Monitoring into our applications (API, SCAN, PROCESSES)*

Progressive | *Data Engineer*   **Jul 2020 - Mar 2021**
- *Worked with Enterprise Data Pipeline*

- *Worked in AWS environment (S3 / EC2 / ECS / Lambda / RDS)*
- *Used PySpark to process batch data pipelines*
- *Fetched all the snowflake-config- repos in GitHub into a base repo with gitmodules and Automate the CICD pipeline with Jenkins API, Git, and Python*
- *Worked with Snowflake to clear old entitlements from snowflake via python and pandas*

Volkswagen of America | *Software Engineer*   *Feb 2020 - Jul 2020*
- *Developed Volkswagen's 'reservation platform' for online buying called myVW portal*

- *Developed web app solutions using a variety of languages, frameworks, and platforms such as NODE JS, SQL, GraphQL, and HTML.*
- *Created a product report in CSV and sent it to Datalake in sftp format with NODE JS.*
- *Data Extracting, Validation, and Correction with Python - Pandas*
- *Worked on the CI/CD pipeline to deploy to AWS EC2 instances*
- *Worked with RESTful application on AWS Lambda with Python*
- *Worked with AWS (Lambda, Fargate, CloudWatch, S3 Buckets, API Gateway, etc..)*
- *Wrote unittest and integration test with pytest and moto*

Capital One | *Software Engineer*   *Jan 2018 - Jan 2020*
1. Intent Setup Platform Team Member: responsible for developing and deploying new features, legacy application enhancements, and production support under AMP - Acquisition Modernization Program for card

- *Created serverless slack slash command application to help Segment Leads see campaign status with NODE JS and deployed to AWS - Lambda*
- *Created serverless Post-App Disclosures rendering with NODE JS, added SNS topic, and deployed to AWS*
- *Created serverless data comparison application with Python, added SNS topic, and deployed to AWS*
- *Created serverless campaign-monitoring application with GO, added SNS topic and deployed to AWS*
- *Wrote Unit and Integration test with GO, Node, and Python*
- *Implemented New Relic Performance Monitoring to eApis; brandedOffers, displayContents and SolMapping*
- *Implemented Cyberark Vault for M1-Cloud and ICatalyst DBs*
- *Performed AMI and storage type migration on AWS*
- *Worked on a new platform SPICE UI and legacy platforms ICatalyst and M1-Cloud*
- *Performed Rehydration for EC2 and ASG*
- *Helped to solve tickets opened by users (Segment Leads) (Production Support)*
- *Made necessary changes on CFT and Jenkins files*
- *Wrote python script to find differences in each table between two different databases*
- *Wrote python script to update database table from another database table*

2. Investing Platform Conversion Team Member: was responsible for developing and validating data transformation processes from Capital One Investing platform to E*TRADE

- *Responsible for converting 1.2 million Capital One Investing customers' sensitive information to E*TRADE.*
- *Developed validation scripts with Python and Pandas for millions of rows of Capital One's data*
- *Developed a time-saving method utilizing Pandas data frame with Python to find discrepancies in data migration during ETL jobs from the Sybase database.*
- *Used PySpark for real time processing*
- *Developed SQL queries to extract data from existing sources and transferred the accounts and related data to E*TRADE.*
- *Involved in processing the streaming data and batch data using Apache Spark*
- *Imported information from different sources such as AWS S3, and EC2 and converted them into Spark RDD for analyzing data.*
- *Developed spark scripts via pyspark by adhering to the client's requirements for ensuring the effective operation*

Fannie Mae | *Software Engineer*   *Nov 2016 - Jan 2018*   -
Worked in DevSecOPS Team

- *Worked on DevSecOPS Team's DAST(Dynamic Analysis Security Testing Scan), SAST(Static Application Security Testing) scan, SCA(Software Composition Analysis) scan, OPA(Open Policy Agent Docker Image and Scan Policies), Invicti(Web-Security Scan), Zeronorth, SSL scan, Eligible Scan, API Scan, SDElements scan, Compliance Scan, and Container Scan.*
- *Worked with AWS (Lambda, Fargate, CloudWatch, S3 Buckets, API Gateway, etc..)*
- *Wrote REST end-points and schemas to perform query scans for various scans*
- *Worked with AWS (Lambda, Fargate, CloudWatch, S3 Buckets, API Gateway, etc..)*
- *Used CFT(Cloudformation) to add AWS resources and deploy such as lambda, api gateway, etc..*
- *Worked on deploying applications to AWS environment with Jenkins and UCD*

Ucar (University Corporation of Atmospheric Research) | *Software Engineer*   *Dec 2015 - Nov 2016*   -
Built Ucar's Website with Django and Automation with Python

- *Worked with Grafana for analytics and monitoring of database and website*
- *Worked with RPM Package Manager on a Linux environment to build packages*
- *Worked with NGinx for web servicing*
- *Used Django/Python to build UCAR's dashboard*

- *Assisted with the automation of the UCAR's manual processes by writing Python scripts to speed processes and maximize accuracy*

Gate Gourmet | *Business Intelligence Administration Analyst / Developer*   **Oct 2013 - Nov 2015**
- Managed $10+ million/year in the airline's inventory

- *Automated Backorder notification application utilizing Python and VBA to notify 500+ hubs in North and South America daily shipment status, resulting in a considerable reduction in man-hours*
- *Assisted with the automation of the finance department's manual processes by writing Python scripts to speed processes and maximize accuracy*
- *Data Migration of new inventory and additional item*
- *Wrote unittest and integration test with pytest and unittest*
- *Automated the Microsoft Outlook with VBA to send automated emails daily*

LC Waikiki | *VBA Developer*   **Jul 2012 - Aug 2013**
- Developed a customer registration system for a fashion retail company.

- *Create VBA programs to automatically update Excel workbooks, encompassing class & program modules and external data queries.*
- *Develop GUI interfaces using Open Database Connectivity (ODBC) to connect to Oracle (RDBMS).*
- *Extensively use Excel functions in development, focusing on read/write integration to databases.*

EDUCATION & CERTIFICATION

- **Stratford University** | **Master of Science in Information Systems** | *Falls Church, VA | 2013-2015*
- **Işık University** | **Bachelor of Engineering in Industrial Engineering** | *Istanbul, Turkey | 2007 - 2013*
- **SpringBoard** | **Data Science Certification Program** | *San Francisco, CA | 2017*
- **Işık University** | **Advanced Excel Certification** | *Istanbul, Turkey | 2012*
- **AWS Certification** | **AWS Developer Associate** | *Falls Church, VA | 2018*
- **AWS Certification** | **AWS Solution Architect** | *Falls Church, VA | 2018*
- **SCRUM Alliance** | **Certified SCRUM Master** | *Fort Washington, MD | 2023*

PROJECTS

SpringBoard | *Instacart - Kaggle Competition*
- Instacart Future Order Analysis; Predicting the consumer's next purchase order for Instacart. Predicting which item(s) will be in a user's next order by looking at over 3 Million historical purchase orders from more than 200,000 anonymized Instacart users.

- *Python | Numpy | Pandas | Matplotlib | Seaborn | Statsmodels | Unix | Jupyter Notebook | Linux | Statistical Analysis | CDF & ECDF Functions | Linear Regression | Bayesian Model | Machine Learning*

Stratford University | *Stratbook*
- Stratbook is a campus social networking website for Stratford University, in the form of online social networks, are second nature for university students and aspiring young professionals today. Stratbook is a free service that allows you to create an online page to connect with Stratford University students and Professors. You can share Personal Information, education-related books, questions/answers, etc..

- *JavaScript for front-end | HTML5 and CSS for the static page view | JavaScript library - flex slider | MySQL for database*

Işık University | *Metaheuristic Algorithm Implementation for Vehicle Routing Problem with TABU SEARCH*
- The heuristic and metaheuristic search algorithm brings a solution to the vehicle routing problem faced by delivery and collection vehicles. The optimal solution of a VRP instance is the shortest, quickest, or cheapest set of routes assigned to a group of vehicles that satisfies all customers' demands without contravening any instance-specific constraints.

1. *MATLAB for coding | Excel for database | VBA for connecting Excel and MATLAB | ARENA for simulation*