SOUVIK DE

Contact: +8107090225566 (M), **E-Mail:** souvik.de5@gmail.com

Key Skills: Python, C, JavaScript, node.js, Python, C++, Lua, Azure, AWS, Postgres. **GitHub:** https://bit.ly/2koUBH6

Passport No: S5354335(Expiry Date: 23/07/2028) **LinkedIn:** https://bit.ly/2Gbbqi6

Visa Validity: 28/03/2028 **Leetcode:** https://leetcode.com/u/Souvikd07/

Profile Summary

- I am a results-driven Software Development professional with over 3 years of experience in developing innovative technology products for consumers and society.
- Detail-oriented and adept at multitasking, I possess exceptional coding skills and hold a Bachelor's degree in Computer Science Technology, with a proven track record of solving 150+ problems on LeetCode.
- I have extensive experience in building and delivering robust, universally accessible solutions, and possess a deep understanding of software development tools and environments including Python, C, C++, Nodejs, JavaScript, MongoDB, SQL(PostgreSQL, MySQL Workbench), HTML, CSS, Android Studio, and VS Code.
- As an organized and disciplined team player, I enjoy helping others, achieve work-related results ahead of Deadlines and most importantly learn from new challenges while problem-solving.
- I excel in system designing, implementing, and managing cloud-based systems for businesses, with expertise in developing and deploying cloud applications, migrating on-premises applications to the cloud, and debugging cloud stacks.

Professional Experience

Backend Software Developer, Sato Holdings Corporation Ltd. ***June 2021-Present***

- Implemented the SATO App Storage Random Reconnection feature, significantly reducing Azure cloud server load by 65% during unexpected disconnections when downloading files and applications from the SATO App Storage cloud. This development task posed several challenges both in software and on the cloud front. Through this project, I mastered web socket programming, HTTP range requests to resume downloads post-reconnection, and handling HTTP timeouts. Additionally, I developed techniques to randomize the MQTT object and HTTPS reconnection structure, which further decreased server load during reconnection attempts.
- Developed a Cloud Printing Application leveraging AEP (Application Enabled Printing) binary from firmware, enabling global clients to print labels remotely without needing on-site personnel. Utilized JavaScript with the React framework for the user interface and Python scripts for backend processing. This software significantly enhances productivity by facilitating seamless remote label printing from anywhere in the world.

Technical Skills

Learnt Languages	JavaScript(with webhooks), React, Angular, Lua(for Backend-Pipelines, WebSocket and HTTPS Programming), LuaMqtt, Python3, C, C++, , SQL(Postgre)
Cloud Courses & Certifications	Azure, MQTT, GCP, AWS
Tools & Utilities	Jira, Slack, GitLabs, Kanban, Electron, SCP, SSH, Playwright, Katalon Studio, Selenium, Microsoft Office tools
Operating Systems	Linux, Window 7, Windows 8 and Windows 10

Internship Experience

Intern, Amicret Studio Pvt Ltd. ***June – August 2019***

- Worked with several Big Data Technologies such as Programming Hadoop with Spark, Pig, Yarn, Hive, Zookeeper, and Zeppelin.
- Worked on project on feeding data to a cluster using Kafka and setting up film to monitor a directory and store its data in HDFS for in house and other clients.
- Developed multiple Websites such as responsive as well as E-commerce Website which are live right now on the internet using, HTML 5, CSS 3, PHP, JavaScript.
- Designed systems to report web sessions per day and systems to court daily sessions.

Project Trainee, ITC Infotech Ltd. ***June – August 2018***

- Worked as a project trainee in the Data Centre under the Executive head of Networks and Security department.
- Learned how to install Ambari Servers with the help of Linux to make Hadoop management simpler.
- Used and learned Splunk for security and compliance.
- Designed a webpage showing the real time updates based on the big data received in the form of a json file.
- Gathered knowledge on the Hadoop Clusters, Yarn, HCP and HDP, Spark Installation, HBase Clusters, Hive, Zookeeper and Ambari Servers.

Certifications and Workshops

- **Completed certified course in "End-to-End Machine Learning with TensorFlow on GCP" from Coursera. (https://bit.ly/3vk0Kne) -** Like most software libraries, TensorFlow contains multiple abstraction levels, tf layers, tf losses et cetera. These are high level representations of useful neural network components. These modules provide components that are useful when building custom neural network models. the estimator API is a high-level API. It knows how to do distributed training, it knows how to evaluate, how to create a checkpoint, how to save a model, how to set it up for TensorFlow Serving. Cloud ML Engine is orthogonal to this hierarchy. Regardless of which abstraction level we are writing our code at, CMLE gives us a managed service for training and deploying TensorFlow models. TensorFlow is highly performant. We can train models on CPUs, GPUs, TPUs and are not locked with only Cloud ML on GCP. Here, we also learned how to deploy the whole project using the **Google Cloud Platform services**.
- **Attended Microsoft Hackathons on Microsoft Azure Cloud organized by Skillenza.**
- Completed certified course in "Data Science (IBM)" from Coursera.
- Completed certified course in "Programming for Everybody (Getting started with Python)" from Coursera.

Academic Projects

- **Specialization in system infrastructure**; the course aimed to train us on well-informed cloud strategy and manage the adaption process, IT security to monitor the company's cloud privacy and designing, developing, and deploying modular cloud-based systems. The course aimed to give us practical learning skills for identifying the top **cloud architecture** solutions to successfully meet the strategic needs of various companies in today's world.
- Created an automated Air-Pollution Monitoring and Management System which was an **IOT based project**. Programmed an Arduino to detect the concentration of pollution present in the air. Then, the data is transferred with the help the help of wi-fi module to a webpage or a web-based document, where the analysis of the data is done. After the analysis of the data, if the air of certain place is found to be very much polluted then personal messages regarding preventive should be sent to the user by the application created. Here, the main aim of the project was to create a real-time data analysis system to increase the awareness between people.
- Created a program for Garbage collecting **auto censored dump truck project**. Where a truck automatically senses the garbage can when it is full and collects the garbage. The truck had a smell sensor controlled by AI.

Workshops Attended

- Participated in Hackathon (2019), Hack 2.0 (Dev-Engers) organized by Microsoft and Skillenza. Created a model that predicts the rise and fall of prices of stocks in the Indian Stock Market using LSTM and by Sentimental Analysis of Tweets (from influential people) that would affect the next day's stock rate.
- Attended a workshop on DS & ALGO organized by Coding Ninjas and Ramaiah University (2019).
- Attended a workshop on Deep Learning Models on Distributed Cloud organized by IEEE-IISC DEEP LEARNING SUMMIT.
- Participated in Texas Instruments Innovation Challenge organized by Texas Instruments Inc. in collaboration with Department of Science and Technology (DST), supported by MyGov, and acquired a place in Semi Finals.

Extra-Curricular Activities

- Organized Cultural Fest of MS RAMAIAH UNIVERSITY.
- Team Leader for 6th Semester College Mini-Project work.
- Served as a Class Representative for the CSE Department Third Year Students. Helped them get acquainted with the college studies and environment.
- Club Head, Cynergy Coding Club, MS RAMAIAH UNIVERSITY.
- Organizer of Geeky Coders 2017, Inter-College Tech Fest.
- School Sports Captain, Bhartiya Vidya Bhavan (BHAVANS)

Education

Degree	Specialization	University/ School	Year	Grade
4thYear, C.S Engineering	Computer Science	M.S. Ramaiah University	2019-20	GPA-9.82
3rd Year, C.S Engineering	Computer Science	M.S. Ramaiah University	2018-19	GPA-8.2
2nd Year, C.S Engineering	Computer Science	M.S. Ramaiah University	2017-18	GPA-7
1st Year, C.S Engineering	Computer Science	M.S. Ramaiah University	2016-17	GPA-6.5
CBSE AISSCE	Class XII	Hariyana Vidya Mandir	2015-16	60%
CBSE AISSCE	Class X	Bharatiya Vidya Bhavan	2004-15	CGPA-9