Samarth Gour

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Profile

To work in a challenging and motivating environment which makes me deliver the best and constantly enhance my knowledge and skill that can be utilized for development of the organization and my career.

Professional Summary

- 2+ years of work experience in cloud, network, and storage domain.
- Hands-on experience in software development, sustenance and testing of backup and recovery software for linux and windows platform.
- Proficiency in C++ as a windows and linux software developer.
- Knowledge of the full Software development life cycle following SDLC and Agile Methodologies.
- Self-motivated and quick learner of new concepts and technologies.
- Strong interpersonal and communication skills.

Professional Experience

Msys Technologies Pvt. Ltd.

Project: Development of VSS Hardware Provider Framework.   July 21- Till Date

Role: Software Engineer
Technology/Tools: C++, COM, STL, Win32 SDK, FreeNAS, Postman, cURL, jsoncpp, Windows, DLLs, GitLab, WiX toolset, Clang-Tidy, Visual Studio.
Description: Microsoft VSS coordinates the actions that are required to create a consistent snapshot copy of the data to be backed up in a specific volume at a specific point in time.
The objective of the project was to develop a client agnostic VSS Provider.

Role & Responsibilities:
- Explored Microsoft Volume Shadow Copy Service (VSS) to develop VSS hardware provider.
- Developed efficient windows service in C++ through both pair-programming and independent work.
- Scrutinizing and debugging the call flow between VSS service and provider using log files.
- Implemented REST APIs using cURL & jsoncpp for communicating with storage server.
- Implemented VSS hardware provider specific interfaces for taking consistent snapshot of volume.
- Participated in designing the framework and implemented it accordingly.
- Developed Volume Shadow Service Hardware Provider as per VSS backup flow for ZFS based FreeNAS Server exposed over iSCSI.

Project: S3 compatible Client and Server Development.   Apr 21 - July 21

Role: Software Engineer Trainee
Technology/Tools: C++, AWS, Cloud, Object Storage, Socket Programming, Docker, Linux
Description: POC using C++ for developing a backend service.
Role & Responsibilities:
- Explored AWS S3 APIs and its workflow.
- Explored AWS resource and user IAM policies.
- Implemented multiple AWS S3 APIs using C++ SDK.

Project: Client's proprietary data protection, replication & recovery software.   Aug 20 - Mar 21

Role: Software Engineer Trainee
Technology/Tools: Bugzilla, Excel, Oracle 12c, Office 365, Azure, Linux, Windows

Role & Responsibilities:
- Testing features based on Office365, BMR, backup & restore, under development for client's software.
- Detection of software defects and degradation, tracking via Bugzilla ticket system and follow up until the fix is provided and validated.
- Helped the QA team in performing various test loads.
- Maintenance and troubleshooting automation framework for executing test cases triaging issues.
- Worked closely with the development team and QA team in unit testing Oracle RMAN based feature.
- Mentor new members in the team to help them ramp-up quickly.

Msys Technologies Pvt. Ltd. (Internship)   Jan 6 - July 20

Role: Software Engineer Intern
Technology/Tools: C/C++, Ubuntu
- Underwent training in C/C++.
- Explored about internals of UNIX based OS (Advanced Programming in Unix Environment).
- Implemented Data structures such as Array, Linked List, and Sorting Algorithms.

Abstinent Research and Technologies (Summer Internship)   Jun 19 - Aug 19

Role: Data Analytics Intern
Technology/Tools: Python, Anaconda, Scikit-learn,
Windows
Roles & Responsibilities:
- Developed a machine learning model for predicting severity of road accidents in the UK.
- Exploratory data analysis of UK road accident data containing more than 23 attributes.
- Creating a time series model for financial data.

Education:-

- University of Petroleum & Energy Studies, Dehradun, India   Jun 16 - May 20
  Bachelor of Technology – Computer Science and Engineering

  Specialization: *Business Analytics and Optimization*

- XII, Vidyasagar School ,Indore, India   May 15
  All India Senior Secondary Certificate Examination(PCM)

- X, Kendriya Vidyalaya, India   May 13

Certifications:-

● Open Source Software Development Methods- The Linux Foundation | Coursera

● Microsoft Technology Associate –Programming using Python | Verzeo
Edutech.

● A BD0101EN certified training of Big Data 101 from Big Data University
(IBM).

Skills and Proficiencies:-

- **Languages: -** C++, C, Python, R.
- **Databases:-** Oracle 11g, MYSQL
- **Softwares & Frameworks: -** Visual Studio 2019, STL, Anaconda, IBM InfoSphere, R
  Studio, Git, JsonCpp, Curl, Postman, Scikit-learn.
- **Operating System:** - Windows XP/7/8/10/11, Linux, Ubuntu.