YOGENDRA KUMAR

CONTACT DETAILS

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in **LinkedIn**

EDUCATION

○ **2009**
MCA
Institute of Management Studies, Dehradun, Uttrakhand (Uttrakhand Technical University)

○ **2005**
M. Sc.
DAV PG College, Dehradun (HNB Garhwal University), Uttrakhand

CORE COMPETENCIES

- Software Development Lifecycle
- Requirement Gathering
- Coding & Optimization
- System Architecture Design
- Data Recovery Solutions
- Project Management
- Technical Documentation
- Defect Resolution
- Code Reviews
- Quality Assurance
- Cross-functional Collaboration

SOFT SKILLS

- Direction, Vision & Leadership
- Communicator & Innovator
- Mentoring & Coaching

PERSONAL DETAILS

Date of Birth: 8th March 1983
Languages Known: English & Hindi
Permanent Address: Flat- A03, House No.- 343, Universal Homes, Dayanand Marg, Subhash Nagar Clement town, Dehradun, Uttarakhand, 248002
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JOB OBJECTIVE

Aiming to contribute to the development of innovative and robust software solutions while utilizing my skills in high-speed protocols, API design, database recovery, and testing frameworks, ensuring high-quality deliverables and fostering team collaboration for achieving organizational goals.

PROFILE SUMMARY

- **A visionary professional offering over 8 years of robust experience** in application development, familiarity with Linux and Python with specialization in Windows platform software and database recovery domains.
- **Proficient in** C++, OOPS, Data Structures, and VC++, with in-depth expertise in Windows API, Win32, and MFC application development for delivering high-quality software solutions.
- **Adept in high-speed PCIe Protocol** with hands-on experience in developing middleware and COM APIs, contributing to advanced verification systems for debugging and validation.
- **Skilled in forensic research** and reverse engineering file formats for applications like iPhone data recovery, QuickBooks repair, and password recovery, ensuring comprehensive and reliable software solutions.
- **Proven ability to mentor teams**, perform code reviews, and drive defect resolution to enhance project outcomes, adhering to Agile best practices.
- **Specialization in Sybase SQL Anywhere**, with extensive knowledge in recovering, repairing, and restoring critical database components, including tables, views, and indexes.
- **Proficient in** unit testing, alpha testing, and integration testing, ensuring the delivery of reliable and error-free applications.
- **Hands-on expertise in** designing intuitive and user-friendly interfaces for a range of tools, enhancing usability and end-user satisfaction.
- **Extensive experience collaborating with teams** to develop tailored solutions, resolve technical issues, and implement enhancements for cutting-edge software applications.
- **Successfully led and contributed to innovative projects** like Stellar Data Recovery for iPhone, Stellar Repair for QuickBooks, and Stellar Password Recovery, among others, showcasing versatility in software development.
- **Strong command of modern C++ standards** (C++14 and C++17), STL Containers & Algorithms, enabling the development of scalable, efficient, and cutting-edge software applications.

WORK EXPERIENCE

Logic Fruit Technologies Pvt. Ltd.	Mar'22 – Present
Module Lead Software Engineer	

Project: PCIe Protocol Analyzer & Exerciser
Client: Keysight Technologies
Technologies: C++, VC++, Python, OOPs, COM APIs, GTest, Visual Studio 2019, Vivado
Protocol: Peripheral Component Interconnect Express (PCIe)

Description: Developed an advanced verification application that captures and analyzes data traffic generated by various protocols such as PCIe, ASI, and FC. The tool enables engineers to identify issues, determine root causes, and troubleshoot effectively, streamlining the development and testing of high-speed protocols. Additionally, implemented a PCIe Exerciser tool to support engineers in development, debugging, and validation activities.

Key Result Areas:
- Gained in-depth understanding of high-speed PCIe Protocol (Peripheral Component Interconnect Express).
- Designed and implemented middleware components and COM APIs, ensuring robust testing using GTest and Python.
- Developed modules in C++ and VC++ by applying advanced Object-Oriented Programming (OOPs), Data Structures, and Algorithms.
- Leveraged features of C++14 and C++17 standards in module development to enhance performance and functionality.
- Utilized Git for version control and JIRA for efficient defect tracking and project management.
- Conducted mentoring, code reviews, and bug-fixing activities to ensure high-quality deliverables and foster team collaboration.

Stellar Information Technology Pvt. Ltd. **Dec'10 – Mar'22**
Senior Software Engineer (R&D)

Technologies: C++, OOPS, Data Structures, VC++, Win32, MFC developer, in Windows Application Development, Visual Studio 2010/2019.

Key Result Areas:
- ➔ Designed cutting-edge algorithms and software solutions, significantly enhancing performance and scalability of product portfolio.
- ➔ Developed prototypes for new features, conducted rigorous testing, validated functionality to meet performance benchmarks and user requirements.
- ➔ Collaborated with product management, hardware teams, other software engineers to integrate new technologies & ensure seamless product functionality.
- ➔ Authored comprehensive technical documentation and conducted knowledge-sharing sessions, fostering team-wide understanding of complex R&D processes and innovations.

PROJECTS

Stellar Data Recovery for iPhone Software Developer
Technologies: C++, VC++, OOP, MFC, WIN32, Visual Studio 2010
Platform: Windows

Description: Developed advanced data recovery software for iPhone, enabling recovery of critical data such as Contacts, Messages, Photos, Videos, WhatsApp Chats, Notes, Calendars, and more, including deleted data. The software also provided enhanced preview functionality for all recovered data.

Key Result Areas:
- ➔ Conducted research on iPhone data storage and file formats using forensic tools (WinHex) to understand recovery processes.
- ➔ Added support for new iOS releases by integrating required modules into Stellar Data Recovery for iPhone.
- ➔ Handled client cases by utilizing latest iTunes backup for iPhone data recovery.
- ➔ Designed and implemented the user interface for the software, improving user experience.
- ➔ Developed functionality for erasing iPhone data and updating iPhone firmware for non-functional devices.
- ➔ Performed unit & alpha testing of modules to ensure software stability & quality.

Stellar Repair for QuickBooks Software Developer
Technologies: C++, VC++, OOP, Threading, MFC, WIN32, SQL Anywhere
Platform: Windows
IDE: Visual Studio 2010

Description: Developed advanced repair software for severely damaged QuickBooks files qbw), enabling recovery of essential company data, including vendors, customers, transactions, invoices, payroll, and job details. The software provided an enhanced preview of recoverable data from corrupt QuickBooks files.

Key Result Areas:
- ➔ Conducted research on QuickBooks file format (.qbw) using forensic tool WinHex to develop effective repair strategies.
- ➔ Integrated support for new QuickBooks releases (2020 and 2021) by developing and adding relevant modules to the software.
- ➔ Managed client cases by manually repairing QuickBooks files using SQL queries in Sybase for data recovery.
- ➔ Designed and developed the user interface to enhance usability and client interaction with the software.
- ➔ Conducted unit and alpha testing of software modules to ensure functionality and performance.

Stellar Password Recovery for Windows Server Developer
Technologies: C++, VC++, OOP, MFC, WIN32
Platform: Windows Server (2000 - 2019)
IDE: Visual Studio 2010

Description: Developed a robust password recovery tool for Windows Server, enabling password reset for local user accounts, administrators, domain controllers, and RAID-configured servers.

Key Result Areas:
- ➔ Researched Windows SAM file format using forensic tool WinHex to enable effective password reset mechanisms.
- ➔ Integrated support for Windows Server 2019 by developing new modules for the password recovery tool.
- ➔ Designed and implemented a user-friendly interface for the password recovery software.
- ➔ Conducted unit & alpha testing to ensure functionality & reliability of solution.

Stellar Password Recovery for Windows Developer
Technologies: C++, VC++, OOP, MFC, WIN32
Platform: Windows (2000 - 10)
IDE: Visual Studio 2010

Description: Developed a comprehensive password recovery tool for Windows, allowing users to reset Admin and User account passwords for login access.

Key Result Areas:
- ➔ Researched Windows SAM file format using forensic tool WinHex to support effective password recovery.
- ➔ Designed and developed user interface for the password recovery software.
- ➔ Conducted unit and alpha testing to ensure software quality and performance.

Stellar Repair for SQL Anywhere Developer

Technologies: C/C++, VC++, OOP, Threading, MFC, WIN32
Database: SQL Anywhere
Platform: Windows
IDE: Visual Studio 2010

Description: Developed a solution to restore critical .db file data for SQL Anywhere, including recovery of tables, views, indexes, and triggers, with the ability to preview scanned and repaired data.

Key Result Areas:

- Researched Sybase (.db) file format using forensic tool WinHex to enable effective data recovery.
- Integrated support for SQL Anywhere 17 by writing and adding necessary modules.
- Conducted research and implemented support for Spatial data types in SQL Anywhere recovery.
- Designed and developed the user interface for Stellar Repair for SQL Anywhere, enhancing user experience.
- Addressed and resolved application-related issues to improve functionality.
- Performed unit and integrated testing to ensure software stability and effectiveness.