

MANSOUREH SOROUSH

Full-Stack Senior Software Developer

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About Me

- Experienced full-stack Senior Software Engineer with a track record of timely, high-quality project deliveries.
- Proficient in C++, Python, JavaScript, SQL, Linux, and Qt, with strong problem-solving skills and a team-focused mindset.
- Eager to use my software development expertise to contribute to challenging projects and drive business growth.

Skills

Programming Languages and Frameworks

- VC++, C++ (MFC, STD), C# (Object-Oriented)
- Qt Technologies (To develop Cross-Platform Application)
- Python Programming, Data Analysis by Pathon (NumPy, Pandas, etc.)
- JavaScript, Node.js, Express.js, jQuery, React
- Database: MS SQL Server, Oracle, Postgres, MongoDB
- Unix/Linux - Ubuntu
- Flutter, Mobile Applications (Android Studio)

Development Tools and Methodologies

- Experience with the Full Software Development Life Cycle
- Proficient in Agile / Scrum Methodologies
- Agile Project Management Tool : JIRA
- Version Control: Ms. Source Safe, Git
- Team Workspace Tool : Confluence
- Code Analysis Tools: Cppcheck, Coverity
- Memory Leak Detection Tool: Deleaker
- Profiling Tools and Techniques for Performance Tuning
- Familiar with Cloud Computing Fundamentals
- Proficient in SQL Queries

Additional Experiences

- Performance Evaluation and Optimization Techniques
- Multi-process Synchronization, Multi-threading Programming, and Threading APIs
- Design Patterns and Architecture, SOA, and Refactoring
- Fiddler Core API for Network Analysis
- API Programming , REST API
- Large-Scale and Cross-Platform Development Projects
- Strong Teamwork, Collaboration, and Integration Skills

Specialized Skills

- Certified in Developing GenerativeAI and LLM Applications
- Certified in GPU Architecture and Computational Parallel Processing
- Certified in AMD HIP GPU programming, ROCm SMI

Experiences

1. Hexosys (Kuala Lumpur, Malaysia)

2008 - Present

Full-Stack Senior Software Developer

Responsibilities:

1. Develop and maintain full-stack components using various technologies, including C++ (MFC, STL), C#, Python, JavaScript, and Qt.
2. Design hatch tables as data structures for Protocol Analyzer/Exerciser software to store and search BUS data.
3. Utilize Qt VS Tools for cross-platform capabilities, rapid prototyping, and smart memory management.
4. Monitor BUS data in various views.
5. Develop reusable components for complex statistical reports using templates and multi-threading.
6. Design software with appropriate patterns using RUP and UML.
7. Responsible for the full lifecycle of developing complex software solutions.
8. Collaborate with other teams for integration, high-quality deliveries, and customer satisfaction.
9. Manage source files with Ms. Source Safe, Perforce, JIRA, and Confluence.

10. Optimize performance, memory leakage, and refactor code.
11. Develop secure authentication and authorization components.
12. Implement monitoring and logging solutions.
13. Save/load and export data.
14. Consider Version Control to ensure backward compatibility during migrations.
15. Develop and implement testing strategies.
16. Provide comprehensive documentation.
17. Develop and manage data using Postgres, Oracle (SQL Queries)
18. Solving issues, fixing compile errors in Linux environments

Projects

- Protocol Analyzer & Exerciser Solutions & Telecommunication Applications: SAS / SATA, Fiber Channel (FC), Fiber Channel over Ethernet (FCoE) — *Using C++, VC++, MFC, STD, Qt, Python*
<https://www.teledynelecroy.com/protocolanalyzer/ethernet>
- Supervisory Control System and Data Acquisition Application:
 - SCADA Control Centre (Serial Port Communication) — *Using C#*
- MyZesty as a Photo Editing and Sharing Application:
 - <https://myzesty.com> — *Using Python, JavaScript*

2. Elecmp (Dubai, United States Emirates)

2004 - 2008

Full-Stack Software Developer

Responsibilities:

1. Develop and maintain full-stack components using VC++ (MFC, STL)
2. Design software with appropriate patterns using RUP and UML.
3. Responsible for the full lifecycle of developing complex software solutions.
4. Manage and control the source files using Ms. Source Safe.

Projects:

- Protocol Analyzer & Exerciser Solutions & Telecommunication Applications: SAS / SATA

3. Tosan (Tehran, Iran)

2002 - 2004

Full-Stack Software Developer

Responsibilities:

1. Develop and maintain full-stack components using VC++ (MFC), C#.
2. Design software with appropriate patterns using RUP and UML.
3. Responsible for the full lifecycle of developing complex software solutions.
4. Manage and control the source files using Ms. Source Safe.
5. Develop and manage data using Oracle, Ms SQL Server.

Projects:

- Retail Banking System
- Card Management System

4. Tineh (Tehran, Iran)

2001 - 2002

Full-Stack Software Developer

Responsibilities:

- 1. Develop and maintain full-stack components using VC++, MFC, and VBasic.
- 2. Responsible for the full lifecycle of developing complex software solutions.
- 3. Develop and manage and monitor data using Ms. Access, Ms SQL Server, and Crystal Report.

Projects:

- Accounting, Buying and Selling, Stock, and Personnel & Salary Systems

5. Pendar (Tehran, Iran)

1999 - 2001

Full-Stack Software Developer

Responsibilities:

- 1. Develop and maintain full-stack components using VC++, MFC, VBasic, Direct-X, and Open GL.
- 2. Develop Shared-Libraries as dll files by ISAPI using VC++.
- 3. Utilize the dll files in Web Programming, ASP.

Projects:

- Providing .dll files with VC++ to use in web pages.
- Flight simulation software for using in poison-sprayer helicopter.
- Training software (physic laboratories).

Educations

• **University of Malaya / Malaysia**

June 2014

Master of Science (M.S.) in Software Engineering — (GPA: 3.41 / 4.00)

Extracurricular Activities:

- 1. Research on Business Website Performance Evaluation
- 2. Developing of Real-Time Performance Metrics Evaluator for E-commerce Site using Fiddler Core API

• **Tehran IAU / Iran**

August 1998

Bachelor of Science (B.S.) in Software Engineering. — (GPA: 17.31 / 20.00)

Certifications

- Effective Communication, Creative Thinking, and Innovative Problem Solving (from NAST Training & Consultancy)
- Modern C++ (17/20) Concurrency in Depth (Udemy)
- The C++ (20) Masterclass: From Fundamentals to Advanced (Udemy)
- Generative AI for Beginners (Udemy)
- 2024 Bootcamp: Generative AI + LLM App Development (Udemy)
- Complete AMD HIP GPU Programming for Beginners (Udemy)
- 100 Days of Code: The Complete Python Pro Bootcamp (Udemy)
- The Complete 2024 Web Development Bootcamp (Udemy)
- The Complete Flutter Development Bootcamp with Dart (Udemy)
- Cloud Computing Fundamentals (Udemy)
- Essential Unix Skills for Developers (Udemy)

Languages: *English*