Iti Tyagi

Senior Software Developer | Clean Coder

👤 Profile

Senior Software Designer with 14+ years of experience in **C++ development**, **system architecture**, and high-performance systems. Proven history of delivering scalable solutions for automotive and fintech industries. Skilled in **CI/CD** pipelines, **memory management**, and **low-latency systems**. Enthusiastic about mentoring teams and driving engineering excellence.

💼 Employment History

Senior Software Designer | Architect at ICT Group B.V, Barendrecht

July 2018 — Present

Key leader for Volkswagen's MQB and MEB platforms, driving innovation and enabling critical functionalities across their infotainment and electric vehicle systems. Recognized for strategy development, leadership engagement, and team development.

- Contributed to core functionalities like Park Heater, Honk and Flash, Plug and Charge, Board Computer, and other Functions on Demand for infotainment systems fort ID Series, Audi, Skoda, Seat, Porsche etc, using C++14, C++17, Java, Python and docker.
- Developed and optimized CMake Find Packages, CI/CD pipelines, and **Docker**-based coding environments to enhance productivity for multithreading environment.
- Collaborated with senior engineers to enhance automation and centralized configuration management, leveraging containerization and **Kubernetes** expertise.
- Integrated Java Native Libraries to enable seamless communication between C++ and Java code, bridging modern functionality with legacy systems.
- Key Developer for **ASPICE Assessments**, mainly involved in explanations for SW3/4/5 practices, Integration testing, Component testing, Statis Analysis using Klocwork, Memory detection Sanitizers (C++), and Valgrind (C Code)
- Mentored team members in clean coding principles, Test-Driven Development (TDD) using Cmocka and Google Test, and ensured seamless integration of modular, maintainable code while simplifying complex concepts into actionable solutions.

Senior Quant Developer (Banking) at Crisil Ltd. India, London

May 2017 — July 2018

Crisil is a financial analytic firm, provides software solutions, finance model validation to various investment banks across US and UK markets.

Details

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Links

LinkedIn
CodingDummies
StackOverFlow

Skills

C++14, C++17,C++20

Python, Java, JavaScript

CI/CD, Kubernetes, docker

CAN,,Ethernet,MQTT,SOMEIP

Linux, Autosar, CMake

System Design

Memory Management

SQL,YAML,PostgreSql

Data Structures, Algorithm Design

Performance Optimization

Design Patterns

Others: R, C#, Git, Azure

- Re-architecture of Market Scenario Expansion product, enabling company to pitch in the tool to investment banks, using Java, Angular JS, SQL, Apache, Server – Linux, Cron Job (Linux).
- Prepared, with Directors, the projected project expansion plan (RMU), cutting hour's expense to 30%.
- Hired and managed remote testing team, design team, organized trainings, for new hires.
- Additionally working in C#, .NET, R, SQL Server, JavaScript Node JS, Angular JS for UBS Bank and using statistical methods that perform data analysis based on very large amounts of data.
- Crisil Thought Leadership Award for the financial year 17-18, showing exceptional project management skills, coding enthusiasm and bringing major clients for the SEM project.

Consultant/Sr. Developer (Hedge Funds and Banking) at Gartner Inc., Gurgaon

September 2015 — May 2017

- Implemented project management best practices, ensuring quality assurance and risk management throughout the lifecycle.
- Worked with stakeholders to define project goals, track progress, and measure success.
- Spearheaded initiatives to streamline development workflows, reducing build times by 25% and increasing developer productivity by 30%.
- Advocated for clean coding practices and test-driven development (TDD) to enhance code quality across teams.
- Conducted comprehensive research and analysis on emerging technologies and market trends to guide IT investments.
- Used data analytics to evaluate IT performance and recommend improvements, resulting in significant cost savings.

Software Developer at Newgen Inc., India

January 2011 — April 2014

Newgen Software's, is a Product development company, providing services to Canadian and United States companies.

- Loan Lending Application – Developed web-based application, HTML5, CSS3, Angular JS, and Entity Framework 4.0.
- Spectrum Mortgage Application – Developed an N-tier web-based application for the Canadian Client, re-deigned Visual Basic portal to HTML, CSS, jQuery, Crystal Report, JavaScript, SQL, Entity Framework, LINQ.
- Poker View – n tier Window application for the Casino based Client, designed in Silverlight, MVVM, Prism, and SQL.

🎓 Education

Masters in organizational Behaviour and International Leadership, University of Bocconi

January 2017 — January 2018

Masters in Digital Advertising and Public Relations, Mudra Institute of Arts and Communications

January 2014 — January 2015

Bachelors in Computer Science, The Technological Inst. of Textiles and Sciences

July 2007 — July 2011