



Hirenkumar Patel

Solution Developer / C# & .NET / SQL Server / iOS

-  Sydney, NSW, Australia
-  inquiry.hirenkumar.com.au
-  LinkedIn
-  github.com/hiren65
-  Stack Overflow

15+ YEARS IN SOFTWARE	10 YEARS STRUCTURAL DESIGN
10+ YEARS AT QUANTUM GROUP	12k+ APP STORE DOWNLOADS

Skilled .NET developer with more than a decade of hands-on delivery — designing, building, testing and supporting business applications in **C#, ASP.NET, ADO.NET, MVC and SQL Server**, on top of three years of native iOS contracting in Objective-C and Cocoa. Before software, ten years as an **R.C.C and steel structure designer** in Gandhinagar, India — an engineering grounding that still shows in how I approach analysis and precision. A known team player with a drive to meet organisational goals through excellent software development.

Currently a **Solution Developer** at Quantum Asia Pacific, where I own business solutions end to end: gathering requirements from internal and external customers, scoping and costing, developing and documenting the test regime, running the project, then supporting it in production. I work comfortably across a proprietary vendor development toolkit and traditional platforms, and I enjoy the front end as much as the data layer — modern JavaScript (ES6+), Vue.js, React and Node.js on one side; stored procedures, user-defined functions and triggers in T-SQL on the other.



Full solution ownership

Requirements → scoping & costing → build → test regime → deployment → day-to-day production support.



Data-layer depth

SQL Server 2005–2012+ design, stored procedures, UDFs, triggers, T-SQL scripting and data migration.



Security & continuity

Form- and Windows-based authentication, roles and impersonation; identifying systems risk and implementing BCP for mission-critical systems.



Native iOS background

Published iOS work as a contractor — Core Data, Core Graphics with UIKit, RESTful back ends and App Store release management.

LANGUAGES

C# JavaScript (ES6+) T-SQL Objective-C HTML5 CSS3 Python Swift

BACKEND & FRAMEWORKS

ASP.NET MVC .NET 6 ADO.NET Entity Framework LINQ Razor Web Services

Windows Services MS Enterprise Library Dependency Injection Node.js / NPM

FRONTEND

Vue.js React jQuery Bootstrap DOM JSON Responsive UI

DATA

SQL Server 2005-2012+ Stored Procedures User Defined Functions Triggers

Data Migration

MOBILE

Cocoa / UIKit Core Data Core Graphics Auto Layout RESTful APIs ActionScript 3

PRACTICE & TOOLING

Agile Git / Subversion Visual Studio Windows Server 2012 R2 SDLC

Project Management BCP

STRUCTURAL DESIGN

R.C.C design Structural steel Load analysis Structural detailing IS codes

Solution Developer **CURRENT**

Quantum Asia Pacific & Quantum Service & Logistics

JAN 2024
PRESENT

📍 Unit 11, Slough Business Park, Silverwater Rd, NSW 2128 📞 +61 2 8767 2200

- Develop, maintain and manage business solutions across the group.
- Understand requirements from internal and external customers and propose solutions.
- Solution scoping, sizing and costing.
- Develop and document the solution test regime, including regression testing.
- Solution development and project management.
- Identify and document potential systems security risks; recommend, implement and validate the effectiveness of solutions.
- Identify, recommend and implement business continuity planning covering all mission-critical systems and data.
- Provide day-to-day support to internal teams for production systems and solutions.
- Guide the production team to use production systems effectively in daily operations.
- Ensure compliance with all work instructions and the technical compliance of the products.
- Knowledge sharing, skills handover and staff training as directed by management.
- Promote company policy and culture, and deliver additional responsibilities allocated by the directors.

Information Service & Technology Engineer

Quantum Asia Pacific & Quantum Service & Logistics

📍 1 Aviation Rd, Hoxton Park, Len Waters Estate, NSW 2171 📞 +61 2 8797 9755

JAN 2020
JAN 2024

- Created and maintained in-house applications on the .NET framework.
- Managed complex queries across MS Visual Studio .NET and C#, and built advanced SQL Server databases to resolve escalated issues.
- Wrote SQL scripts creating database tables with foreign-key relations in SQL Server 2008/2012 using T-SQL.
- Used ADO.NET classes extensively for database connectivity.
- Applied the Bootstrap CSS framework for responsive application styling.
- Involved in ongoing support and maintenance; produced code and user documentation.
- Supported CFS, DCC, SCC and ARB production areas with everyday IT support.
- Rectified and resolved technical issues reported by the production team.
- Performed failure analysis for each new SI.
- Installed DCC customer equipment to customer requirements.
- Supported setup of DCC customer network infrastructure equipment and associated cabling.
- Troubleshoot DCC production network issues.
- Liaised with Dell to seek solutions for customer-related issues.
- Maintained SQL back-end databases and in-house portals used across CFS, DCC, SCC and ARB.
- Communicated new project setups and trained production teams on project requirements.

Computer Operator

Quantum Service & Logistics

📍 350 Parramatta Rd, Homebush West, NSW 2140

MAR 2016
DEC 2019

- Received and dispatched orders; scanned all orders and produced reports.
- Product testing and screening.
- Software upgrades and BIOS customisation across laptops, desktops and all-in-ones.
- Installed third-party software on customer request.
- Prepared scripts for network image loading and system installation.
- Image loading, BIOS updates and boot-mode changes.
- Changed or customised domains and activated enterprise Windows.
- Worked independently on VPN projects.
- Printed labels and asset tags, and burned asset tags into devices.
- Led individual projects as Team Leader.
- Completed end-of-project quality checks and reported daily to the manager.

Data Management

Reliance Accounting and Finance

📍 Office 2, Level 1, 15 Portico Pde, Toongabbie, NSW 2146

SEP 2014
APR 2015

- Data entry and management.
- Managed data through input, editing and backup routines.

iOS Developer · Contractor

Independent contract engagements

📱 Objective-C · Cocoa · Core Data · UIKit

JAN 2011
JAN 2014

- Designed and built native iOS applications in Objective-C and Cocoa for a range of clients.
- Integrated cloud data across multiple devices using Core Data.
- Built applications that interact with RESTful services and back ends.
- Owned user interface development end to end, from sketch diagrams through to final build.
- Built the UI with the UIKit framework and Auto Layout across multiple device sizes.
- Developed code tying distinct views to portrait and landscape orientations.
- Applied Core Graphics with UIKit for calculation and plotting interfaces.
- Coordinated with graphic designers on the assets needed for a polished interface.
- Managed the App Store submission and approval process.

R.C.C and Steel Structure Designer

Gandhinagar, Gujarat, India

🏠 Reinforced concrete & structural steel design

2000
JAN 2010

- Structural design of reinforced cement concrete (R.C.C) elements — slabs, beams, columns and footings.
- Design and detailing of structural steel members and connections.
- Structural analysis and load calculations, including beam load-carrying capacity.
- Prepared design calculations and structural drawings for review and approval.
- Applied the relevant Indian Standard codes of practice to concrete and steel design.
- Field experience that later shaped the PtLoad and ContBeamAnalysis iOS design tools.



Published on the App Store

A portfolio of apps under my own developer identity, with more than 12,000 downloads to date across the US, AU and GB stores.

[Reminder](#)[MathGraphs](#)[TriangleMaths](#)[Trigonometric](#)[PtLoad](#)[ContBeamAnalysis](#)

[View developer page ↗](#)



Maths & graphics engineering

MathGraphs, TriangleMaths and Trigonometric demonstrate equation string parsing, calculation engines and graphical display — Core Graphics driven, built on top of UIKit.



Engineering tools in the field

PtLoad and ContBeamAnalysis let a structural designer calculate beam load-carrying capacity on site rather than waiting to get back to a desk — instant answers, saved time and cost.

Education

1983

Bachelor of Engineering (Civil)

1987

Saurashtra University — Morvi, India

Approach

Agile delivery within a defined SDLC, version control with Git and Subversion, and a habit of documenting both the code and the people-facing instructions that go with it.

Find me online

**LinkedIn**

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**GitHub**

github.com/hiren65

**Website**

inquiry.hirenkumar.com.au

**Stack Overflow**

stackoverflow.com/story/hirenkumar

**App Store**

Hirenkumar Patel — developer page

