Karan.Tabrizi@gmail.com
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Karan Tabrizi

PROFESSIONAL SUMMARY

Senior Engineering & Data Leader building at the intersection of enterprise infrastructure and modern AI workflows.
Recently shipped a complete mobile game in 7 days by orchestrating local Codex models and agentic code generation pipelines—combining 14+ years of data architecture experience with AI-native development.
AI & Agentic Engineering: Local LLM Workflows, Prompt Orchestration, AI-Assisted Prototyping, Code Generation
Enterprise Systems: Data Engineering, Solution Architecture, Capacity Planning, Performance Tuning
Proven track record leading technical teams and scaling complex systems across tech, banking, and healthcare.

TECHNICAL KNOWLEDGE

- Optimization, Dynamic T-SQL, PostgreSQL,C#.Net, Python
- SDLC: Agile, Scrum, Waterfall, and Spiral
- MS-SQL Server 2005-2019, MySQL
- Linux Systems Administration
- DevOps Automation (CI/CD, Agile Methodologies)
- Integration Services (SSIS), ETL
- Cloud Technologies (Azure Expertise)
- Source Control: Team Foundation Server (TFS)
- Collaboration Tools: SharePoint, MS DevOps, VSTS
- Networking (IP Addressing, Routing)

EDUCATION / CERTIFICATES

- Azure Data Engineer Associate Certificate (2024) – Azure Data Fabric
- M.S. Mechanical Engineering, University of Texas at Austin
- B.S. and M.S. Mechanical Engineering, University of Manchester, UK

PROFESSIONAL EXPERIENCE

Atomicity LLC, San Diego, CA [Generative AI & Mobile] **Jul 2026 to Present**
Lead AI Engineer & Developer

- Engineered and launched a role-based mobile strategy game within 7 days by orchestrating local Codex models and agentic pipelines, automating complex game-state logic, UI assets, and context-managed prompt execution workflows.
- Conducted private beta playtesting to refine game balance and user experience prior to App Store deployment, while architecting modulated code for scalability.
  Technical Environment: OpenAI Codex, Local LLMs, Prompt Engineering, Mobile App Architecture, Git, Generative AI Design Tools

ServiceNow, San Diego, CA (Hybrid) [Technology] **Feb 2025 to Jul 2026**
Senior Capacity Engineer

- Capacity Planning: Analyze resource usage, forecast future demand, and recommend infrastructure scaling.
- Performance Monitoring: Track system performance, identify bottlenecks, and monitor key metrics like CPU, memory, storage, and response times.
- CMDB & Data Management: Maintain accurate configuration data, validate discovery data, and ensure CMDB quality.
- ServiceNow Capacity Management: Configure dashboards, reports, alerts, and automate capacity management workflows.
- Reporting & Analytics: Create dashboards, analyze utilization trends, and provide capacity recommendations to stakeholders.
- Incident & Problem Support: Investigate performance issues, perform root cause analysis, and recommend long-term solutions.
- Automation: Streamline monitoring, reporting, and capacity management processes using ServiceNow automation and scripting.
- Collaboration: Work with infrastructure, cloud, application, and IT operations teams to support capacity planning and service reliability.

IEHP, Los Angeles, CA (Remote) [HealthCare] **Sep 2024 to Feb 2025**
Senior Data Engineer/Solution Architect (Contract)

- Set up Azure Key Vault for various security purposes including relocating login information and Server information
  Modified SSIS packages and procedures to incorporate Azure KeyVault using Certificates and Secrets

UCLA Health, Los Angeles, CA (Remote) [HealthCare] **Jan 2021 to Jul 2024**

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Senior Data Engineer/Solution Architect (Contract)

- Designed and implemented data pipelines, DataMarts and OLTP as the solution architect.
- Migrated selected databases from on-Prem to Azure and created ML pipelines using databricks, Grafana and Prometheus.
- Collaborated with other team members as the technical lead, dividing the project and assigning tasks to individuals on projects with other engineers or analysts.
- Developed ETL SSIS, jobs, logs and SPs for data management.
- Optimized TSQL code for readability and performance achieving 70% improvement.
- Implemented an automated daily data refresh process using dynamic SQL, incorporating robust logging mechanisms to enhance reusability, error visibility, and facilitate faster onboarding for new projects.
- Created data pipelines from external APIs to SQL server using Postman, C# and SPs from various sources including google cloud, Teradata etc.
- Developed an automated partitioning process to keep recent certain time of data on large tables (terabytes).
- Lead regular meetings with stakeholders and took part in agile ceremonies with other developers.
- Consulted customers for enhancements on queries for data quality and performance.
- Maintained metadata on Collibra UI and ERDs on Lucid to improve user experience by providing insight to data definition and DM/DW structure.
- Employed VS-Git and MS DevOps as the version control tool to collaborate and deploy code between environments.
- Completed the design, development, and testing of two projects 80% faster than estimated, delivering in 1 month instead of 5 as requested by the customer.

Technical Environment: SQL Server 2017, SSIS, SSMS, SSDT, VSTS 2019, T-SQL, AZURE, DataBricks

Midland Credit Management ECG, San Diego, CA [Finance] **Nov 2019 to Jan 2021**
Senior Data Engineer/Technical Team Lead (Contract)

- Engaged directly with business to tailor requirements, plan and develop crucial projects with short deadlines.
- Designed and developed parts of a DW (star schema) and OLTP, including the structure, relationships and data flow.
- Designed and developed automated SQL window partitioning from scratch for large online tables (2TB+), enabling the deletion of old irrelevant data within seconds through parameterization.
- Created, debugged and optimized numerous SSIS packages and complex dynamic SQL queries.
- Took part in peer review and QA in a highly organized and detailed process.
- Collaborated with offshore team using visual studio for version control.
- Hired, trained and managed the onsite team of 4.

Technical Environment: SQL Server 2017, SSIS, SSMS, SSDT, VSTS, ER-win, T-SQL

CBRE, Dallas, TX [Wealth Management] **Jun 2018 to Oct 2019**
Senior Data Engineer/Technical Team Lead (Contract)

- Managed and executed interviews and technical onboarding process for new team members.
- Trained and supervised new team members/developers and their code to increase team efficiency and reduce error.
- Managed Database structure (OLTP), functions, optimization and data utilizing PostgreSQL.
- Created and managed numerous SPs for staging purposes using dynamic SQL.
- Optimized existing SPs by dynamic SQL to increase reusability, reducing daily staging jobs duration from 12 to 3 hrs.
- Designed, created and managed a data mart (data modelling) to unify multi source data for reporting and website use.
- Modified existing SSIS packages to account for new requirements and managing errors.
- Coordinated closely with the product managers/owners to gather and understand business requirements.
- Involved in designing, analyzing, building, and testing of OLAP cubes in SSAS and adding calculations using MDX
- Developed interactive dashboards in Power BI, enabling data-driven decision-making and providing actionable insights.
- Working with backend and UI team to provide optimum solution to DB calls.
- Performed SQL DBA processes to overcome occasional deadlocks and failures for daily jobs.

Technical Environment: SQL Server 2014, SSIS, SSMS, SSAS, PowerBI, SSDT, DBeaver, ER-win, T-SQL, SQL Profiler, DTA, Jira

Travel Leaders Group, Minneapolis MN / Dallas, TX [Tourism] **Nov 2016 to Dec 2017**
SQL/Data Engineer (Contract)

- Coordinated with the business analysts to gather business requirements and helped creating Tableau repots.
- Involved in data modeling, System/Data analysis, design and development for OLTP/OLAP applications.
- Created automated SQL scripts to create new databases, tables and implemented constraints for data integrity.
- Performed DBA tasks such as defragmentation, re-indexing, database files management and space requirements.
- Developed SSIS packages to load data from various OLTP such as SQL databases, Excel, XML files and Web Service APIs.

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- Utilized event handlers (script task with C#.Net) and redirect error output in the ETL process to handle runtime errors.

Technical Environment: SQL Server 2012/2016, SSIS, SSMS, SSDT, Visual Studio 2017, ER-win, T-SQL, SQL Profiler, DTA, Azure

Wells Fargo, Minneapolis, MN [Finance] **Sep 2015 to Nov 2016**
SQL/BI Engineer (Contract)

- Took part in continues daily discussion with the business to capture requirements.
- Created efficient security measures through views for restricting data, schema binding and indexed views.
- Identified and tuned slow running queries utilizing efficient joins, index maintenance and encapsulation.
- Implemented error handling and debugging process utilizing @@error, try-catch statement, and if-else statements.
- Create multiple SSIS packages with custom logging and notifications from various source types.
- Created, optimized and scheduled multiple parameterized reports with drill through on SSRS.
- Communicated the reports and packages with colleagues and business using TFS and deploying reports to SharePoint.

Technical Environment: SQL Server 2012, SSRS, SSIS, SSMS, SSDT, SQL Profiler, TFS

Rady's Children Hospital, San Diego, CA [Healthcare] **Jul 2014 to Jul 2015**
Data Pipeline Engineer (Contract)

- Analyzed business requirements to document functional requirements and development efforts.
- Created logical and physical data models using the ER-win data modeler considering suitable normalization level for SCDs.
- Created and optimized multiple database objects such as procedures, functions, and triggers.

Technical Environment: SQL Server 2012, SSIS, TSQL, SSMS, SSDT, ER-Win, TFS

Intersys, Austin, TX [Technology] **Mar 2010 to May 2014**
SQL/Data Developer (Contract)

- Interacted with business users to meet needs of both compliance regulations and business requirements.
- Designed and Created multiple SSIS packages to migrate data from Excel and SQL Server sources and cleans Data.
- Created multiple reports for differing departments utilizing SQL scripts and stored procedures as data sets.
- Employed business logic through analyzing data to create data mapping documents and data flow packages (ETL).
- Optimized SQL queries utilizing execution plan, Indexes and dynamic SQL SPs.
- Exported QB data into excel and maintained VBA codes for reporting.

Technical Environment: SQL Server 2008R2, SSIS, TSQL, BIDS, SQL Profiler, ER-win, QuickBase, VBA