

# Kouider “Tony” Bakhti

## Software Engineer | Full-Stack Developer

C#/.NET • C++ • Python • Azure • Software Architecture

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### PROFESSIONAL SUMMARY

Senior Software Engineer specializing in full-stack application development, enterprise software modernization, and cloud-based solutions. Experienced in C++, C#, ASP.NET Core, Python, React, REST APIs, and Microsoft Azure, with a track record of delivering business-critical applications and modernizing legacy systems.

### TECHNICAL SKILLS

**Programming Languages:** C#, C++, Java, Python, JavaScript, TypeScript, SQL, PHP

**Backend Development:** ASP.NET Core, .NET, FastAPI, Node.js, REST APIs, MVC, LINQ, DTOs, Swagger/OpenAPI, JSON

**Frontend Development:** React, Angular, Vue.js, HTML5, CSS3, AJAX, Responsive Web Design

**Databases:** Microsoft SQL Server, PostgreSQL, MySQL, Azure SQL, T-SQL, Relational Database Design, ODBC/JDBC

**Cloud & Tools:** Microsoft Azure (App Service, Application Gateway, Azure SQL, Entra ID, Virtual Machines), Docker, Azure Container Registry, GitHub Actions, CI/CD, Git, GitHub, Visual Studio

**Engineering Practices:** Object-Oriented Programming, API Design, Software Architecture, SDLC, Agile Development, Legacy System Modernization, Database Integration

**Additional Integrations:** OpenAI APIs, Twilio, RingCentral, WordPress/WooCommerce

### PROFESSIONAL EXPERIENCE

#### Senior Full-Stack Developer / Software Engineering Consultant (Contract)

Bian Laboratories LLC — San Antonio, TX | 2020–2024

- Designed, developed, and delivered an operational e-commerce platform supporting online sales, private-label products, and formulation workflows.
- Developed private administrative interfaces and portals for internal business operations.
- Designed and implemented an operational ERP Version 1 prototype covering approximately 40% of the planned functionality.
- Conducted stakeholder interviews, documented business processes, and defined ERP requirements and architecture with a long-term SaaS vision.

#### Senior Full-Stack Engineer / Lead Developer (Contract)

Wellness Software Solutions — San Antonio, TX | 2024–2026

- Architecting the SaaS modernization of SpaRes using C#, ASP.NET Core, React, and TypeScript; designing tenant-isolated databases, multi-location support, and location-based licensing.
- Developing REST API endpoints and data transfer objects (DTOs) supporting reservations, clients, services, staff scheduling, and location management.
- Implementing reservation workflows involving validation, appointment availability, status management, rescheduling, and authentication.
- Developed SpaRes.TherapistPortal.Api using C#/ASP.NET Core, extending the existing platform so therapists could check schedules remotely without contacting the front desk.
- Worked with Microsoft Azure services, including App Service, Azure SQL, Application Gateway, and virtual machines.
- Integrated telecommunications APIs, including RingCentral and Twilio, to support business messaging workflows.

#### AI Software Engineer / Full-Stack Developer (Contract)

Wellness Software Solutions — AI Business Assistant Platform | San Antonio, TX | 2025–2026

- Researched AI integration for wellness operations in 2025; built a CRM in 2026 using Python, FastAPI, PostgreSQL, OpenAI APIs, and Twilio.
- Modernized the application into a layered architecture separating API routing, business logic, database access, and external integrations.
- Implemented authentication and role-based access controls; verified the application with 101 passing automated pytest tests.
- Containerized the application with Docker and implemented GitHub Actions CI/CD to run tests, build images, and publish them to Azure Container Registry.
- Successfully executed automated build and deployment workflows targeting Microsoft Azure App Service.

## Senior Software Engineer / Web Application Developer (Contract)

Wellness Software Solutions — San Antonio, TX | 2020–2024

- Led migration of a C++/ODBC business software environment to Azure beginning around 2021, including applications, databases, hosting, user access, authentication, security, and Entra ID.
- Maintained application functionality and database connectivity through the transition from local to cloud-hosted infrastructure.
- Developed integrations between web applications and existing operational database systems.
- Modernized frontend functionality using JavaScript, AJAX, responsive interfaces, and web technologies.
- Maintained and enhanced existing software while preserving compatibility with established business workflows.

## Senior Software Engineer / Consultant

Wellness Centers — San Antonio, TX | 2010–2020

- Designed and maintained C++ Windows desktop applications with ODBC and local databases, including SpaRes, SpaSoft, TimeClock, and Payroll.
- Built scheduling, customer-management, employee timekeeping, payroll, and administrative reporting functionality.
- Designed local relational database structures, SQL queries, and data-access components supporting business operations.
- Implemented application validation, authentication, and business-rule processing.
- Managed software updates, troubleshooting, deployment, and ongoing maintenance across multiple releases.

## Web Application Engineer / Consultant

Global Links / Independent Contracting — San Antonio, TX | 2004–2010

- Designed and developed database-driven web applications, customer portals, and business software using Java/JSP, Servlets, PHP, and MySQL.
- Developed a healthcare-related web application supporting emergency department visit information and operational data management.
- Implemented web application functionality involving database access, user interfaces, business logic, and data validation.
- Developed e-commerce functionality, including shopping-cart systems and transaction-processing workflows.

## EARLIER SOFTWARE ENGINEERING EXPERIENCE

### Web Developer

WebTek — Canada | 2001–2004

- Developed database-driven web applications, server-side business functionality, and administrative tools.
- Worked with Java, JSP, JDBC, PHP, and Apache Tomcat.

### Software Developer

ComLink Group Inc. — Canada | 2000–2001

- Developed software components and network communication functionality using C++.
- Worked on software supporting remote monitoring and communication systems.

## EDUCATION

Master's Degree in Computer Science (Software Engineering)

Université du Québec à Montréal (UQAM) — Montréal, Québec, Canada