

Vishal Bajoria

22 buck ln, Haverford, PA. 19041 | P: (267) 231-1248 | E: vkbajoria@gmail.com

STRATEGIC LEADERSHIP - SOFTWARE ENGINEERING - ENTERPRISE ARCHITECTURE

EXECUTIVE SUMMARY

Visionary technology leader with over 20 years of experience in software engineering, data science, and machine learning. Specializes in scaling complex software solutions in regulated sectors like financial services, insurance, and healthcare. Expert in leading multiple teams in the design, development, and deployment of large-scale software platforms, with a strong background in backend development (Python, C#), database management, and cloud infrastructure (AWS, GCP) with 6X AWS Certified.

Adept at building and leading high-performing engineering teams, with a proven track record of transforming concepts into successful customer-centric products. Passionate about learning and leveraging AI and machine learning to disrupt traditional industries, I bring a founder's mentality and a relentless focus on innovation to drive 10x results.

PROFESSIONAL EXPERIENCE

Venerable - *Director Application Development and Cloud Solution Architect*

June 2020 - Present

- Lead a diverse team of 30 professionals, including direct oversight of several managers, in a dynamic and fast-paced environment.
- Steer multiple teams towards achieving strategic objectives in Hedging, Investment Management, Enterprise Risks.
- Implemented several greenfield systems, enhancing team productivity and collaboration, contributing to better data sharing, standardizing AWS practices, and adapting new serverless applications for better scalability utilizing cloud formation templates to deploy the application in multiple environments.
- Manage cross-functional initiatives, fostering a culture of innovation and excellence within the team, and driving significant improvements in CI/CD pipelines, disaster recovery management, and cloud-native services adoption.
- Act as a key decision-maker in strategic planning and execution, leveraging deep industry expertise and leadership skills to guide the company through implementing cloud-based serverless applications like:
 - DDGS (Semi-Structured Data Lake and Data Service via API, Subscription)
 - Avatar Trading and Analytic Platform
 - Enterprise Risk and Analysis Tools Platform
 - Rule-based self-service applications for data analytics and transformation using StepFunctions, DataGlue, DataBrew, etc.
 - Gen-AI trade confirms data extraction and verification using Bedrock and Langchain.
 - Call Center Records Transcribe and generate Sentiment, Topic and Summarization using Bedrock, Transcribe Services.
 - SQL query generation as Bedrock and LangGraph Agent.
 - Q&A with PDFs using RAGs.
- Champion the professional development of team members and managers, mentoring and guiding them towards career growth and enhanced performance.

AlphaPoint Inc - *Head of Backend Development*

Dec 2017 – April 2020

- Guided the creation of a state-of-the-art, white-labeled SAAS cryptocurrency trading platform, expertly handling scalability challenges to support thousands of concurrent users and millions of trades per minute.

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- Introduced key features such as Margin Trading, Fee Distribution, and Loyalty Tokens, significantly enhancing platform capabilities.
- Played a pivotal role in integrating multiple third-party payment gateways (Trustpay, Poli-Pay, RazorPay, PSi-Gate) and KYC/AML platforms (Identity Mind, Jumio, Green ID, Chain Analysis) ensuring robust security and compliance standards.
- Led the comprehensive engineering strategy, overseeing the entire software development lifecycle, and successfully built and managed a high-performing team of engineers in a fast-paced, agile startup environment.

TradeWeb Inc - *Vice President of Software Engineering*

Jul 2010 – Dec 2017

- Strategically designed and developed service improvements for high-frequency, low-latency trading platforms using C++.
- Developed a custom-built caching service, compatible with request-response and pub-sub architectures.
- Redesigned the Trade-Blotter service to enable real-time monitoring of trades and order activities.
- Created mission-critical back-office applications for efficient trade transfer to various clearing houses using multiple protocols.
- Promoted from Team Lead to Vice President in 2014, recognizing leadership and technical expertise.

McKesson Corp. - *Software Engineer III*

May 2009 – Jul 2010

- Led development of software products using the agile-scrum framework, including Test-Driven Development.
- Developed a claims recommendation rules-based system using various programs and technologies, enhancing business operations.
- Created a custom XML serializer and deserializer for optimal performance and customer logic implementation, along with custom logging and error handling components.
- Developed a C++ CLI project to enable C# applications to interact with native C++ functions.

Unitrin Direct - *Programmer III*

Mar 2007 – May 2009

- Designed and developed a business tier WCF service application to facilitate order processing for Credit CLUE and MVR, utilizing SOA and messaging design patterns.
- Developed an extensive enterprise library, featuring reusable components for data access, environment reading, persistent error logging, and integrating IBM MQ series.
- Led the development of a new line of business, enabling online renter's quotes and policy purchases using C# ASP.Net 3.5, LINQ, AJAX Control Toolkit, and Enterprise Libraries 4.0.
- Applied advanced design patterns and best practices in software development to streamline operations and enhance customer service.

Futuretech Consulting LLC - *Senior Programmer / Consultant*

Mar 2003 – Mar 2007

- Analyzed client requirements and designed innovative products to exceed expectations.
- Developed n-tier object-oriented web applications in C# and ASP.NET.
- Created reusable components across all tiers, including data access, business, and GUI.

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- Developed a document tracker and template builder in C# and ASP.NET, enabling users to create and distribute letters and notices electronically.

Application Developer - Intern

June 2002 – December 2002

QVC Inc. International IT Department – West Chester, PA

Web Developer - Intern

May 2001 – August 2001

Center for Research in Human Development and Education Temple University – Philadelphia, PA

EDUCATION

Master of Science (M.S.) in Software Engineering

Drexel University, Philadelphia, PA, 2006

Bachelor of Science (B.S.) in Computer Science

Temple University, Philadelphia, PA, 2003

CERTIFICATIONS - ONLINE COURSES

- AWS Certified Machine Learning Specialty
- AWS Certified Data Analytics Specialty
- AWS Certified Solution Architect Professional
- AWS Certified Solution Architect Associate
- AWS Certified Developer Associate
- AWS Certified Cloud Practitioner
- Coursera: Deep Learning Neural Networks, AI Agent in LangGraph, Finetune LLMs
- Stanford University: Machine Learning Course, Startup Engineering
- Udacity: Introduction to Parallel Programming with CUDA, AI for Robotics, Self Driving

TECHNICAL SKILLS

- **Languages:** Python, C#, C++, F#, Java, R, JavaScript
- **AI/ML Tools/Technologies:** scikit-learn, TensorFlow, Keras, LangChain, LangGraph, Bedrock, HuggingFace, Classification, Forecasting, LLMs, VertexAI
- **Open Source:** Docker, Kubernetes, Jupyter Notebook, matplotlib, seaborn, pandas, numpy, CAF, ZeroMQ, TBB, Boost, NHibernate, React, NAnt, SpecFlow
- **Cloud, Databases:** AWS, GCP, Azure, Redshift, RDS Aurora, MySQL, PostgreSQL, MS SQL Server, Oracle, DynamoDB, MongoDB, BigQuery, NoSQL
- **AWS Services:** EC2, ECS, EKS, Fargate, S3, Lambda, API Gateway, SQS, SNS, Athena, Glue, DataBrew, SageMaker, RDS, EventBridge, Kinesis
- **Tools:** VS Code, PyCharm, Visual Studio Professional, GitHub, TortoiseSVN/GIT, SourceTree, CVS, Putty, Trevala, Redis, Hazelcast, JIRA, Jenkins