

Alexander Bell

New York, USA

web: alexanderbell.us

Objective: Principal Engineer/Engineering Manager: AI, Data, Cloud, Web

Summary

Highly-creative and self-motivated STEM polymath with 20+ years of leading-edge IT engineering and hands-on managerial experience. U.S. Citizen, I am eager to contribute my expertise to a high-tech or Fintech American Company as a Principal Engineer or Engineering Manager, with a preference for a remote or hybrid work schedule.

Education

PhD in Electrical and Computer Engineering, Moscow Power Engineering Institute (MPEI), Russian Federation

Notable Achievements

- Pioneered AI NLP, Speech API, AI-assisted Vibe Coding (pair programming) and Prompt Engineering
- Proactively adopted Microsoft GitHub Copilot, conducted AI Vibe Coding case study (C#/Java)
- Pioneered Microsoft Azure Public Cloud development, published multiple Cloud based web apps
- Achieved Microsoft Azure Certifications: **AI-900** (Dec-2023), **AZ-900** (Oct-2022) and **DP-900** (Jan-2023)
- Rated Top-5% on Stackoverflow.com; 500+ IT problems solved totaling 1.7M+ views ([profile link](#))
- LinkedIn influencer with 6k+ followers, appreciated for the contribution to important STEM topics ([profile link](#))
- Authored 30+ inventions in electronics, instrumentation and data/signal processing (DSP)
- Published 100+ articles on IT/EE, received multiple “Best Design Idea” awards from major trade Magazines

Core Competencies and Skills

Engineering, PhD, EE, CS, STEM, Technical Leadership, Problem Solving, Project Management, Innovations, Communication, Collaboration, Teamwork, Jira, Confluence, Microsoft Teams, Windows, Linux, Android, Cloud computing, Azure Cloud, AWS, App Services, Storage Services, Compute Services, AI, ML, NLP, LLM, GenAI, GPT, Microsoft Copilot, Vibe Coding, Prompt Engineering, SOLID, UML, OOP, TDD, Data Engineering, Data Structures, Data Analysis, Data Modeling, Databases, RDBM, ETL, OLAP, OLTP, SQL, SQL Server, T-SQL, Oracle, MySQL, SQLite, Microsoft Access, Algorithms, Asynchronous, Parallel, Multithreading, Performance Optimization, Low Latency, Automation, GitHub, GitLab, .NET, ASP.NET, HTML5, CSS3, XML, JSON, RESTful, AJAX, Web App, Web API, MVC, MVVM, Angular, React, C, C++, C#, Java, JavaScript, TypeScript, jQuery, Python, VB, VBA, PowerShell, Cloud Shell, Bash, OpenXML, Microsoft 365, Microsoft Visual Studio, VS Code, IntelliJ IDEA, Android Studio, Agile, Scrum, SDLC, CI/CD, DevOps Pipelines, Functional Testing, Unit Testing, Integration, NUnit, QA, UAT, Selenium.

Work Experience

Senior Software Engineer, AVP

Wells Fargo

04/2021 - 06/2025

New York, NY

- Developed and re-factored Cloud-based Fintech apps centered on: Microsoft ASP.NET, MVC, C#, JavaScript, TypeScript, jQuery, Angular, HTML5, CSS3, RESTful, Web API, JSON, AJAX, SQL, SQL Server, Oracle
- Created/managed Microsoft Team (2000+ members) focused on AI-assisted GitHub Copilot Pair Programming
- Conducted Copilot Vibe Coding Case Study in 3 IDE: IntelliJ IDEA (Java), MS Visual Studio and VS Code (C#)
- Led Microsoft Azure Cloud Certification 1st wave cohort corporate-wide (activity awarded by upper management)
- Developed Functional Test Automation framework based on ASP.NET Razor and Selenium software libraries.

Founder and Principal Consultant

Infosoft International Inc

07/1998 - 01/2022

New York, NY

Major achievements, duties and responsibilities:

- Founded and led a hi-tech Company for 20+ years
- Pioneered many disruptive technologies, including: MS Azure Cloud, AI, NLP, Speech API, HTML, Java, C#
- Developed variety of leading-edge Win/Web, Cloud and Mobile software apps totaling 100k+ lines of code
- Actively engaged in social/professional networks: LinkedIn, StackOverflow, CodeProject, CodePlex
- Participated in online coding challenges and developed multiple award-winning software apps
- Made significant contribution to Open Source software solutions, IT knowledge base and best practices
- Submitted multiple grant proposals to the US National Science Foundation (NSF) focused on DSP and IT
- Developed and published multiple Android Mobile educational and productivity apps
- Provided IT consulting services to major US financial institutions: JP Morgan Chase, Societe Generale

Lead Developer

SkyStem LLC, contract

09/2018 - 05/2019

New York, NY

Developed web-based financial transactions monitoring software app, maintained CI/CD and change management.

Lead Developer

The Rockport Group LLC, contract

01/2016 - 04/2016

New York, NY

Refactored Microsoft Excel Add-In component focused on enhanced functionality and performance optimization.

Senior Applications Developer

Thomson Reuters Corporation

12/2007 - 07/2008

New York, NY

Led legacy codebase refactoring of financial Quantitative Analytics Web API module. Developed multi-threaded functional test framework. Early adopted SDLC methodologies, Agile principles, TDD, and CI/CD automation.

Lead System Architect/Developer

JP Morgan Chase IB, contract

08/2003 - 05/2005

New York, NY

Conducted business analysis, performed architectural design, development and testing of a distributed Alternative Assets Fund Risk Monitoring System (FRM), and deployed it to the corporate intranet accessible corporate-wide.

Lead System Architect/Developer

Sandler Capital Management, contract

08/2000 - 05/2012

New York, NY

Completed multiple on-site Fintech DevOps projects and provided remote consulting services:

- Developed Investment Portfolio Management system with real-time PNL/KPI computational engine (Y2002)
- Added web-based UI and NLP-enhanced (via AI TTS Speech Synthesis) system monitoring module (Y2007)
- Extended UX of said system making UI to fit variety of form factors, including small-screen smartphones (2010).

Project Technical Lead

Societe Generale, contract

01/1999 - 03/2000

New York, NY

Lead a Y2K compliance project; developed automated scanning/remediation software agent, processed 300k+ software components; coordinated/supervised multi-team (30+ members) efforts reporting to C-Level executives.

Lead Developer

Marsh and McLennan, contract

07/1998 - 12/1998

New York, NY

Conducted business analysis and requirement gathering, developed an automated Insurance Claims Processing system comprised of 3-tier modular architecture, tested and deployed it to the corporate intranet.

Senior System Engineer

Banc of America Montgomery Securities

01/1998 - 06/1998

New York, NY

Developed automated real-time financial securities transactions monitoring system comprised of ETL, PNL computation and reporting software modules.