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Software engineer and architect with 18 years of experience in C#, C++, and Distributed Systems in Azure and AWS. I hold two Master's degrees in Technology Management and Computer Science. I excel in building and scaling backend systems, AI pipelines, and distributed systems both on cloud and on-premises. My technical range spans from embedded systems to machine learning. I deliver high-quality, impactful software quickly and persistently. As a US citizen, I effectively collaborate with global teams and adapt to new markets.

Meta – Staff Software Engineer (April 2024 – present) - led content integrity initiatives on Instagram and Facebook, addressing moderation challenges in high-risk areas like child safety and drugs. I developed machine learning systems to identify violations and ensure user trust. I created scalable tools and automated workflows for keyword management in searches. My work on the Searchability team handled billions of daily classifications, enhancing safety across multiple features and services. I built language-agnostic systems and ML classifiers to enforce content violations, using state-of-the-art technologies like PyTorch, Fluent2, Hack, and Feature Store, with automated ML pipelines for peak performance.

Microsoft – Senior Software Development Engineer/Architect/Team Lead (March 2011 – March 2024).

- ✓ **Devices Operations – (2021 – 2023: Software Architect)** working in the Microsoft Devices Operations – Security & Architecture Solutions team responsible for building iconic devices like Surface, Xbox, and HoloLens. Device Manufacturing architecture team is involved in supply chain, customer delivery, manufacturing, and testing in the global factories. Proven track record in launching, deploying, and scaling hundreds of millions of devices and bringing new factories to US Military/Congress, and other governments or consumer electronics customers around the globe.
- ✓ **Bing At Work (2020 – 2021: Team Lead Engineer)**: full stack role, building both UX components shared across workloads such as Sharepoint, Windows, Office.com, Dynamics, Azure Cognitive Search and Bing. Built the core API powering query understanding, ranking, bots and lookups. Worked on offline systems to mine and model data. Designed, Built and Scaled cloud services, Enterprise grade to different Regions in the world, keeping Security, Privacy and Compliance in line.
- ✓ **Bing Skydance (2017 – 2019: Senior Software Engineer)**: Shipped AI features in Excel to update entities from Knowledge Graph and Financial Exchanges for 50 million users. Created service for NLP project NEMO; improved backend by 15%, 5%, and 50% in loading time, memory, and performance. Built NLP pipeline for Wikipedia tables extraction from 800M tables. Satori: Led a team of four to create a portal to determine web content type and generate attributions from Bing Entity Pane, Knowledge Graph API, and other Microsoft products.
- ✓ **Bing Ads CAPI (2014 – 2016: Software Engineer 2)**: Led a team of three to develop Bing Ads Content API version 2. Increased daily revenue from $2K to $20K and $12M annually. Onboarded Nordstrom, Alibaba, Jet.com, Rakuten, and eBay with custom features and 24/7 support. Built a service to send 1M ad emails per hour. Architected an engine to extract storage content and upload it to Azure Table with over 1000 rows per second. Shipped service for credit card payments and integrated it with Commerce Transaction Platform.
- ✓ **Dynamics and MSN Offers (2011 – 2012: Software Developer – Contractor)**: Created loyalty service with 64 tests, and fixed 30 bugs. Created automation for CAP used by on-call support in Windows, MSN, and Xbox. Resolved 100 critical bugs. Developed a WPF UI automation framework with 70% test coverage for the full infrastructure. Developed verification tools for data migration from CRM Online to Windows Azure cloud and found 30 bugs.

Global Logic – Senior Software Development Engineer (2010 – 2011) - Trained on the Medtronic surgical device in Boston, I reverse-engineered the O-arm 3D X-ray imaging system's source code and developed new .NET-based network protocols, verified in labs and hospitals. I enhanced O-arm device stability with a TCP/IP framework still used in spine surgeries. I designed a web-based tool to evaluate O-arm log files within Excel, boosting support team productivity and reducing debugging time. I built a network communication framework with keep-alive XML validation for resilient connections, improving 3D fluoroscopy performance. Additionally, I developed hardware emulators for offshore development teams.

TEAM International – Senior Software Development Engineer (2008 – 2010) - As a consultant and remote offshore team leader in Ukraine, I acquired new businesses and traveled extensively for projects in publishing, recruitment, and e-commerce. I resolved internationalization, continuous integration, and scalability issues for IBM, Siemens, and Vodafone. I developed a recruitment portal integrating external servers via web services and created an e-publishing platform for Apex CoVantage, accelerating optical character recognition for 5000 daily users.

Altron – Lead Software Development Engineer (2005 – 2008) - While pursuing my bachelor's degree, I worked full-time as a team leader and software developer on phone station certification projects. I trained new hires, developed data extraction frameworks, and created user interfaces for security staff. I also wrote software for phone stations including Lucent/Alcatel, Huawei, Ericsson, and Intertelecom. Additionally, I developed a multithreaded client/server program to emulate and monitor UDP traffic and network protocol messages for CDMA and GSM operators in Ukraine.