# Arslan Ahmad

Software Engineer at Facebook

## Summary

10 years of professional experience in system analysis, architecture, design, development and maintenance, working as a Team Lead and Software Developer. Successfully drove several development cycles of multiple products, resulting in international recognition.

Specialties:
• Distributed Systems Architecture
• Distributed Storage Systems
• Web Portals
• Service Management Infrastructure
• Scalable System Design
• Algorithm Design and Implementation
• Software Watchdogs and Monitoring

Advanced programming skills in C#, C++, .NET, SQL, Node.js, Javascript, Web Services, XML processing, distributed systems, UI design, deployment technologies and desktop software development.

## Experience

**Software Engineer at Facebook**
September 2014  -  Present
   Distributed Storage at Facebook for data warehouse and HDFS/Hadoop.

**Senior Software Developer at Hulu**
July 2013  -  September 2014 (1 year 3 months)
   • Worked on Hulu's next generation messaging network Mercury, which will enable all Hulu devices to communicate with each other in real time.
   • Designed and developed persistent storage for Mercury in Cassandra to serve 50k queries per second.

**Software Development Engineer II - IPE at Microsoft**
July 2012  -  July 2013 (1 year 1 month)
   Information Platform & Experiences (IPE), Bing Maps/Geospatial for tablets

   • Worked on multiple releases of Bing Maps app for Windows 8 and Windows Blue.
   • Owned end to end completion of adding Transit Directions to Bing Maps app.
   • Owned end to end completion of adding multiple alternate routes for Driving and Transit directions.

• Worked on Windows 8 roaming profile and search history.

**Software Development Engineer II - AdCenter at Microsoft**
December 2008  -  July 2012 (3 years 8 months)

Microsoft Ad Delivery Engine is a distributed platform that supports hundreds of millions of requests for ads per day, with very tight SLA requirements. The current system has been stretched to limits in terms of capacity, given the growth of our advertising platform. Any extensibility requires costly hardware with manual installation, configuration and monitoring. Autopilot is a management layer between the OS and your distributed services, on commodity servers. Autopilot currently manages >90% of OSD servers (more than 100,000 servers) including all of Bing. Autopilot offers reduced hardware expense, reduced engineering costs and reduced operations cost. I worked on:

• Worked on migrating AdCenter's Paid Search and Contextual Search to Microsoft Cloud Autopilot.
• Architected the migration of 30+ services to 10,000+ machines in the cloud.
• Worked on re-architecting of Ad Delivery Infrastructure on Autopilot to meet Yahoo! scale.
• Worked on designing and development of services' topology generation and optimization on Autopilot to accommodate Yahoo! traffic.
• Designed and developed monitoring tools, Watchdogs, service deployment framework, log collection and real time monitoring alerts for Autopilot.

**Sr. Software Engineer at Formulatrix**
January 2007  -  November 2008 (1 year 11 months)

Protein Crystallization Automation and Imaging
• Worked on developing software system to automate protein crystallization process which is an initial step for drug discovery.
• Main features of the system were experiment designing, liquid dispensing, image collection, image viewing and scoring, and data analysis,
• This desktop application was platform independent and was being integrated with a lot of liquid dispensing and imaging systems.

**Software Engineer at Xavor**
April 2005  -  January 2007 (1 year 10 months)

Business to Business exchange portal for RBS and HSBC
• Worked on developing a web portal where user can perform their end to end financial activities.
• Worked on the integration layer using TIBCO products. Developed user access control and monitoring tools.

## Education

**National University of Computer and Emerging Sciences**
Masters (MPhil), Computer Sciences, Software Engineering, 2003 - 2005

**National University of Computer and Emerging Sciences**

Bachelor, Computer Sciences, 1999 - 2003

## Honors and Awards

MVP, GoldStar and True North

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