

Moid Alam

Senior Software Engineer - Uber

Santa Clara, CA - Email me on Indeed: [indeed.com/r/Moid-Alam/0d345bf27088d647](https://www.indeed.com/r/Moid-Alam/0d345bf27088d647)

Started my career as hardware design engineer + Assembly language Programmer, and then moved on to C, C/

C++, C#, OOP, COM, database, and desktop apps. From "Debug" in MS-DOS to WinDbg in Windows, never tired of digging deep, and enjoying complexities.

Willing to relocate to: Austin, TX

Authorized to work in the US for any employer

WORK EXPERIENCE

Senior Software Engineer

Uber - August 2015 to Present

- Co-designed and implemented domain-agnostic Workflow system (MySQL, Node.js)
- Led team of ~5 devs
- Advised and facilitated other groups on how to interface with the Workflow system
- Managed services
- Handled scalability issues

Senior Software Engineer

Microsoft - February 2014 to July 2015

Geospatial services

C#, SQL, C/C++

Ingestion of road data and places

Middle layer for Map Editing

Map Store investigation

Map Data Validation

Workflow for map editing

Senior Development Lead

Microsoft - July 2012 to January 2014

WinRT, C#, Windows Store Apps, C/C++, Architect

Geospatial client projects

Senior Software Developer

Microsoft Corporation - November 2010 to July 2012

Speech features integration in Windows Mobile, porting of speech engine from Windows CE to thin Windows 8 (Apollo).

C/C++, WinDbg, STL, Win32, COM, etc

Senior Software Developer

Microsoft - July 2009 to November 2010

Messaging App/middleware for Windows Mobile that enables users to send and receive messages (MMS) with photos and videos on a mobile device.

Responsibilities:

- Designed, implemented and maintained a robust and scalable messaging application to send messages [MMS] with photos and videos from mobile devices.
- Profiled MMS application to analyze and improve performance of the application.
- Actively participated in code reviews and provided feedback on design and implementation.

Technologies/Programming Languages:

C#, C++, Windows CE, CEMAPI, Win32 API, XML, XPath

Senior Software Developer

Microsoft - July 2006 to July 2009

Windows 7:

- Windows Media Center's recording, tuning, media quality, inband guide issues
- Resolving TV tuners compatibility issues, working with 3rd parties
- PBDA (inband guide) Implementation for Dishnetwork

Technologies/Programming Languages:

C#, C/C++, Win32 API, SQL, TCP/IP, Crash Dump analysis (using WinDbg), XML, XPath

Software Developer

Microsoft Corp - June 2005 to July 2006

Windows CE based DVR

- Middleware for video playback/recording, audio, etc
- UI

Technologies/Programming Languages:

C/C++, Win32 API, XML

Software Developer

Microsoft Corporation - September 2002 to May 2005

Worked in Hotmail tools development team.

- Simulated open proxy servers, spammers, etc
- Built a plugin based architecture Moxie for unit and system test

Technologies/Programming Languages:

C#, C/C++, Win32 API, TCP/IP, XML, SQL Schema, SQL stored procs

Software Developer at Target

- March 2002 to September 2002

- Writing Design and development documents for Console utilities (for PM to assess resource requirements)
- Writing COM-based middle-layer components in COM+ environment, using VC++, ATL, ADO, SQL stored procs.
- Helped write some client utilities in MFC, using middle layer components.

- Wrote some NT services as background conversion utilities.

Technologies/Programming Languages:

C/C++, ATL, Win32 API, SQL, COM, MFC

Software Developer (as contractor)

Microsoft Corp - April 2001 to February 2002

- Simulation software for a scalable server, using Winsock 2.0 overlapped I/Os and multi-threading, written in VC++.
- Analysis/ Debugging of a web-based Enterprise network, on Microsoft platform using crash dumps, WinDBG for cache-mechanism ISAPI filter. Helped isolate the Vignette ISAPI filter problems.
- Analysis of Commerce server 2000 web log import/analysis reports, Design of OLAP cubes, interfacing, etc. Helped client Ziff Davis Media achieve their business goals using CS2K.
- Distributed Domain/Network operations testing software with provision of thousands of users.

Technologies/Programming Languages:

C/C++, Windows, XML, COM/DCOM, ATL, MFC, OLEDB, Winsock

Software Developer

Atlas Software - December 2000 to March 2001

Writing generic interface to Bluetooth module (Ericsson's tool kit) for various vendor-specific libraries. Used Internet Explorer's Pluggable protocol to let user browse thru the neighboring Bluetooth devices, and then connect to it. A user can browse internet thru the Bluetooth server, or use any other services (printing, etc.) can be provided. A design structure much like Jini is followed.

Technologies/Programming Languages:

C, Linux, Windows, XML

Software Developer

ITIM Associates - September 1997 to November 2000

- Developed a fat-client update mechanism, and thus elongating the life of this desktop CEMS product in pre-dominant We-based industry.
- Involved in architecture redesign of the server for handling scalability issues.
- Acted as technical lead in many software redesigns and modifications.
- Involved in software development, quality assurance, project management, and system analysis in the same project.
- Involved in evolving processes for Development and SQA.

Technologies/Programming Languages:

Visual C/C++, MFC, DAO, ODBC, ADO, SQL server's stored procedures, NT Services, Desktop Application, COM, XML, Installshield

Software Developer

Supernet Ltd - September 1996 to August 1997

- Advanced Windows Win32 and UNIX programming in C.
- Developed custom multithreaded socket-based Windows-NT based Authorization and Billing software from scratch with distributed dial-up terminals. RADIUS-compliant Cisco dialup servers (like AS5100), NT and LINUX terminals were supported thru a generic interface. The server authenticates all logins (UDP and TCP/

IP packets) thru back-end ORACLE database.

- Developed a TCP/IP based User Manager Server (daemon) on Linux, for accounts, billing and quota management.

Technologies/Programming Languages:

C, Windows NT, Linux, TCP/IP, SQL, stored procs, RADIUS

Hardware Designer/System Developer

Megatech Communications - June 1994 to August 1996

Designed and developed of 8031-based display and control unit of GPS (Global Positioning System), and writing embedded software using Avocet's C compiler. This unit besides indicating the geo-graphic position, also helps user survey an open area, calculate its area, and print out its contours, up to the GPS-provided accuracy.

- Writing software in Assembly Language, and designing hardware for DTMF tone detection and generation, using TI's DSP TMS320C51.
- Development of DOS-based character device driver for application programming (voice recording and playing).
- Designed and developed Time Management System using Borland C++ for V2- based embedded system. Pre-built startup code by Borland's compiler was changed to adapt embedded system's design.

Technologies/Programming

EDUCATION

BE in Computer Systems

NED University of Engineering and Technology
1989 to 1994

BS in Computer Engineering

NED University of Engineering and Technology
1989 to 1994

SKILLS

C++ (10+ years), XML (10+ years), SQL (10+ years), C# (10+ years), API (8 years), MySQL (2 years), Javascript (2 years)

ADDITIONAL INFORMATION

Skills & Expertise

Debugging

TCP/IP

DCOM

Architecture

Databases

Security

C++

C

Win32

Assembly
Embedded Systems
OOP
C#
.NET
Agile
Software Development
Visual C++
Software Design
XML
SQL Server
Scrum
API
Object Oriented Design
Distributed Systems
Metrics
Scalability
Unix
Microsoft SQL Server
Win32 API
Mobile Applications
Web Applications
APIs
Agile Methodologies
UML
Multithreading
Integration
Linux
SQL
Architectures
System Architecture
Mobile Devices
Software Engineering
Testing
Software Project Management
Web Services
MySQL