

Kumar Subramanian

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VISA Status

US Citizen

Technical Skills

<i>Languages:</i>	Java, C#, JavaScript, NodeJS, Python, HTML, CSS, C++, XML
<i>Tech/Frameworks:</i>	Java Spring, ASP.NET, WCF, WWF, Mockito, JQuery, RabbitMQ, KAFKA, Elastic Search, Solar, JUNIT, SQS, SNS, Kinesis.
<i>Databases:</i>	Sql Server, NoSQL (DDB)
<i>Web Services</i>	REST APIs, SOAP APIs
<i>IDEs</i>	Visual Studio, Eclipse, IntelliJ

Products and Services Shipped

- Shipped Amazon Cloud Drive
- Shipped Workflow Engine Based on Serverless Compute for a new Amazon AWS team.
- Shipped Cloud Provisioning for Software Defined Data Center for VMWare.
- Worked on Development of Account Linking for VMWare Account Linking
- Shipped Microsoft SQL Sync Framework v4.0 CTP1, v2.1, v2.0
- Participated in Development of Visual Studio 2010 MSDN
- Designed my own Workflow Framework for Order Management and implemented a variation of MVC pattern
- Architected MS Global Marketing Platform
- Web design using AJAX, ASP.NET Ajax, ASP.NET, C#, MSMQ & SQL server.
- Prototyped Async JavaScript Script Loading and Parsing, which works for all the Browsers
- Designed & Developed Custom Thread Pool and published it to CodeCoop & CodeBox.
- Shipped File Distribution Software using ISAPI DLL (Multi-Threaded), ActiveX Control & Web Services.
- Re-Usable Web components to build Administration web site for Distribution Services.
- Re-Usable Security component (XSS Filter) for ASP.NET web sites.
- Shipped Web Video, Audio streaming web pages for Starlight Networks (Sister Concern of PictureTel).
- Visual C++ Programming using MFC & SDK for Ramco Marshall 3.1(ERP).

Professional Experiences

Harvey-Nash(Getty Images)

September 2020 – December 2020 (Contract)

Senior Software Design Engineer

- Worked on SOLR Indexer. The Indexer requires merging multiple data streams to stream data into SOLR. Suggested Linear Runtime Algorithm to Merge Different Data Stream. Also suggested efficient ways to avoid merging and indexing straight into SOLR with partial

updates. Used .NET Core Services to stream the data into SOLR. Worked with the team in proposing KAFKA as means for Data Sources to stream data into SOLR.

Tanium

January 2020 – May 2020

Senior Software Design Engineer

- Working on Tanium Connect Module using NodeJS, SQL Lite as Technologies. Tanium Connect Module is way to expose internal Events and Data to other Modules or 3rd Party.

VMWare (Bellevue, WA)

*November 2016 –
November 2019*

Senior Software Design Engineer

- Shipped Software Defined Data Center (SDDC) provisioning on AWS Infrastructure.
- Development of Automatic Routing to Cloud Customer Account ENIs when Amazon S3 IP Address Changes.

Amazon-AWS (Seattle, WA)

September 2014 – November 2016

Software Design Engineer II

- Shipped beta version of Workflow Engine based on Serverless Compute. Also prototyped search based on Elastic Search.
- Shipped Amazon Cloud Drive. Worked on Design and Implementation of Search capabilities for Cloud Drive Service.

Microsoft (Redmond, WA)

November 2000 – August 2014

Senior Software Design Engineer

- **SQL Sync Framework:** Shipped SQL Sync framework 2.0, 2.1 & 4.0 CTP1
- **MSDN:** Designed and developed UI Components for MSDN Subscriptions, Custom Thread Pool, server stack for Single Content Publishing, Metaweblog API using XML RPC Protocol to enable Offline clients (Word & Live Writer) to Publish contents to MTPS system.
- **Global Marketing Platform:** Architected the SOA for Global Marketing Platform. Designed the API using VISIO and used Visio to Auto Generate (C#) Code. Shipped the First version of the API.
- **ReachOut :** Lead the team for this Community Plugin for Outlook which integrates Web forums, newsgroups, and syndication feeds, enabling users to subscribe and interact back into the community from within Outlook.
- **Order Management 5.0 :** Order Management is an Microsoft e-commerce product, it is also a portal for tenants like Xbox, Courseware, MSDN. I was responsible for Architecting & Designing Workflow Engine, Order Workflow Management, Physical Object Model, Security Module, State Management and Web Page Design (A Variation of MVC).
- **Courseware 4.0:** Designed and developed web application for Courseware 4.0. Courseware site is an e-commerce web-based application that enables key customers to order courseware materials online.
- **Software Assurance Programs:** Designed and developed web applications for Software Assurance programs like Employee Purchase Plan (EPP) & Home Use Plan (HUP)
- **File Transfer Manager:** Developed ISAPI for secure file transfer. The ISAPI uses WinInet API to transfer BITS through HTTP protocol to the Client. The client uses an ActiveX Control to receive or send bits & to acknowledge messages. The communication is secured using SSL.

All transactions are recorded in to database which enables functionalities like resuming download & tracking download activity.

- **Explore MS:** Designed and developed web pages for MS Channel Partners and Microsoft employees.
- **eLicense/eConfirm:** Designed & developed the web application for eLicence & eConfirm, a comprehensive, centralized, online source of volume licensing information for Volume Licensing Customers.

TIBCO-Spotfire (*Redmond, WA*)

August 2012 – June 2013

Senior Software Design Engineer

- Design and Development of Offline Mobile Analysis Software
- Developed Distributed Data Processing Infrastructure (Prototype).

Vertafore (*Bothell, WA*)

July 2011 – December 2011

Software Architect

- Helped in their development of v8.1 version of the product.
- Designed Security components
- Helped in design for better performance of web pages.
- Set Vision for the future vision of the product

PeoplePC: RiteLink Corp (*San Francisco, CA*)

December 1999 – October 2000

Software Design Engineer

- Developed web application for customer relation management system.

Starlight Networks: (*San Francisco, CA*)

June 1999 – December 1999

Software Design Engineer:

- Designed and developed web application for streaming video product of Starlight Networks (a subsidy of Picture Tel Corporation). This product is similar to Live Meeting.

Ramco Systems: (*Chennai, India*)

April 1996 – April 1999

Systems Executive: Worked as a software developer for Ramco Marshal ERP and its Real-Time Systems.

Education

- Bachelors in Engineering Electronics and Instrumentation(Annamalai University, 1991-1995).
- Participated in Leadership Development Program at Microsoft.
- Certified in Personal Software Process (Carnegie Melon University, 2003).