Karthik Subramanian

"Find out what you like doing best and get someone to pay you for it"

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Summary

- 7 years of hands-on experience in developing & maintaining commercial quality enterprise software
- Proficient in OOD, SOA, Web &Windows Development and DB Architecture
- Full Stack experience in designing, developing & deploying interactive & intuitive web sites using Angular & Django
- Proven leader with experience as a mentor, Project Lead & Architect
- Articulate and confident communicator with excellent client interaction skills, extremely capable of working in high pressure situations ensuring timely & quality delivery

Skills

Programming Languages	C#.Net, VB.Net, Python, PL/SQL, XAML, VB, Java, C++
Scripting Languages	VB Script, JavaScript, TypeScript
RDBMS	SQL Server 2005/2008R2,Postgresql, MySQL, MS-Access
ORM	Entity Framework 4.5, NHibernate, PetaPoco, Dapper .Net
Web Technologies	ASP.Net, HTML 5, CSS 3, Bootstrap 3, JQuery, Knockout JS, Angular JS, Angular 2/4, Django
AWS Deployment Stack	S3, Elastic Beanstalk, RDS, Elasti-Cache, EC2, Docker, Code-Pipeline
Source Control	Git, SVN 1.6.6, TFS 2015, Visual Source Safe, Stash, GitHub
Tools	Visual Studio 2008,2010,2012,2015, SQL Server Management Studio, Visual Studio Code, BitBucket, Confluence, SOAP UI 3.5, Postman, Fiddler, FileZilla, Balsamiq Mockup, Infragistics, SSRS & Crystal Reports
Messaging	RabbitMQ, EasyNetQ, XML, JSON , SOAP & RESTful Services

Education

B.E in Information Technology, *Mumbai University, India*

Microsoft Certification- 70-515 TS: *Web Applications Development with Microsoft .NET Framework 4*

Microsoft certification- 70-519 PRO: *Designing and Developing Web Applications Using Microsoft .NET Framework 4*

Currently working on a H1-B Visa
Time spent in the United States: January 2014 – Till Date

Experience – L&T Infotech

Project Lead   2014 - Present

Content Protection 2.0

The purpose of the project is to design a solution that can meet the organization's growing need to identify audio/video content using fingerprinting & watermarking technologies. Other use cases include Usage Tracking, UGC Monetization & Content Identification to enable interactivity.

- Design & architect a solution that can support the organization's heterogeneous environment of asset management systems, enabling content to be sourced from virtually anywhere & managed by a centralized dashboard with integrations with 3rd party vendors such as YouTube, Vobile, Audible Magic & Nielsen
- Map existing functionality and identify pain points & inefficiencies
- Design & Develop functional prototypes to assist the stakeholders in critical business decisions
- Design & Develop critical modules using Angular 4, HTML5, CSS3, Bootstrap 3 & Django Rest Framework
- Integrate with other applications on the landscape using REST services & RabbitMQ Messaging framework & Camunda BPM

PTSX Web

The project involves developing a web interface to support the legacy WinForms application. The goal is to provide a complimenting UI that will allow users to access metadata & scheduling content on the go. The web application is built using HTML5, CSS3, JQuery & AngularJS 1.5. For data, the existing REST services are being leveraged.

- Responsibilities include Solution Architecting & Project Management
- Map existing functionality and determine how to enhance/duplicate in the web application
- Design & Develop business critical modules using AngularJS, JavaScript & HTML 5
- Develop interfaces to interact with other applications using RabbitMQ
- Lead a team of 3 & Manage end to end delivery of all offshore projects on the legacy application simultaneously
- Design, Develop & Enforce design standards & best practices for the team

Program Tracking System (PTS)

The project entails maintenance & enhancement of an existing legacy WinForm application that serves as the primary scheduling application for all domestic channels of the organization. The application holds the metadata of all domestic content owned/acquired & is used schedule content on broadcast channels & across multiplatform partners such as Amazon, Netflix, Hulu, DirectTV etc. The application is built using VB.Net & C#.Net, SQL Server 2008R2, Crystal Reports in .Net Framework 4.5. Latest enhancements involve Infragistics 2014, PetaPoco & RabbitMQ.

- Responsibilities include requirement gathering, analysis & documenting, solution architecting & project management
- Assist brainstorming sessions with the Programming & Scheduling departments to optimize business process workflows
- Spearheaded the migration of multiple networks onto the application, automating several of the manual processes ultimately ensuring huge savings on tasks that would have otherwise been outsourced
- Designed & Developed the application's internal messaging framework at an enterprise level using Rabbit MQ & Restful Services
- Lead a team of 7 & Managed end to end delivery of all offshore projects
- Perform Unit & Integration testing on all offshore deliverables
- Designed automation scripts using Microsoft Coded UI
- Develop custom automation solutions using fuzzy mapping algorithms to help map content between multiple applications

Sr. Software Engineer   2012 - 2014

Program Tracking System (PTS), Media Monitor

Media Monitor is designed to assist the multiplatform departments of the client to package and deliver media assets present in the DAM that are subject to multiple stitching processes based on work orders. It automates a critical part of the customers supply chain.

- Supervised 2 project teams & ensured timely & quality delivery of all their tasks
- Design & Development of critical & business sensitive modules in VB.Net, C#.Net, SQL Server 2008, Crystal Reports & Infragistics
- Remodeled several application modules by constructing reusable custom WinForms/Infragistics controls
- Conducted Resource Loading, Timesheet Tracking, Senior Management Reviews & QA Compliance as per CMMI SVC 1.3
- Improved overall quality of project deliverables by enforcing stringent coding standards & implementing appropriate design patterns

Software Engineer   2011 – 2012

Program Tracking System (PTS), Metadata Validator, BugNet

The *BugNet* project is an initiative for planning, tracking and reporting of all deliverables, generating intuitive reports on demand and by schedule for senior management enabling them to take quick informed decisions easily.

Metadata Validator was a re-write of a legacy WinForms application into WPF using the MVVM architecture & NHibernate ORM. It monitors the delivery of assets to VOD Partners such as YouTube, Hulu & Amazon and provides a dashboard of all relevant information.

- Designed the User Interface framework & template layout using ASP.NET, HTML & JavaScript
- Enhanced the user experience by creating intuitive & fast user controls
- Customized & Deployed the BugNet Open Source Web Application, fixing & submitting multiple issues in the system which were later incorporated in subsequent releases
- Trained & mentored team mates in MVVM, NHibernate & SSRS

Software Intern   2010 – 2011

Anti-Piracy Web Crawler

Anti-Piracy Web Crawler comprised of a suite of tools designed to track piracy of specific audio and video content on the internet. The objective of the project was to track and obtain details of videos being aired or available for download across several popular sites such as YouTube, MetaCafe etc. Given a list of content titles, the script crawled through several predefined media hosting sites & identified content matching the titles that were available for download/online viewing. The script tagged the links & downloaded the content where available for further scrutiny

- Developed Web Connect Access Scripts & parsing algorithms in VBScript & MSAccess
- Generated analytical reports of Pirated Videos & extrapolated various patterns & usage across several demographics using SSRS
- Unit & Integration Testing
- Documented & Maintained design documents & release notes