

Antony Deepak Thomas

Software Engineer

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Summary

As a seasoned software engineer at Fortune 500 companies, I have contributed to more than 30 professional projects as a team member and have developed more than 20 utility tools as an individual. I spend most of my time developing frameworks\platforms, client-server applications and auxiliary tools. I am thoughtful, insofar as trying to use the best algorithms and design patterns, as well as pragmatic to ship the product on time. I label myself as a curious engineer who can make quick hacks using libraries or spend hours to prove a greedy algorithm. I participate in competitive programming through codeforces and TopCoder. I also maintain my academic bonds through open MOOC platforms such as Coursera and Udacity.

Experience

Software Engineer at Microsoft

August 2013 - Present (1 year 6 months)

Worked in developing Advertising SDK and experiences for Xbox360. Have expertise in programming languages and development models of both the X360 and XOne platforms. Specialized in developing gesture and voice based controls. Used tools that assisted in console debugging, application side-loading and game development. Worked in developing Advertising SDK for iOS and Android platforms. Developed modules related to message-passing between native and non-native layer and network, motion and message-queue management. Used tools that assisted in run-time memory analysis, code coverage, threat modelling and application development. Working in developing a sub-module for the future Windows version. Using tools related to kernel debugging and virtual machine management.

Software Developer at JPMorgan Chase (Consultant)

June 2012 - August 2013 (1 year 3 months)

Currently building a platform that will consolidate 12 or more applications into a unified system; Leveraging Dependency injection container and other best practices from Microsoft patterns and practices. Developed code pattern analyzer that categorizes Visual Basic subroutines into logical groups such as data access components, text formatters and business objects. Authored data-driven testing framework classes that support sequential data access, data filtering, batch and individual testing. These classes enhance the existing Unit testing framework from Microsoft. Built utility applications, such as config builder, executable comparer, pseudo code generator, and static code analyzer that saved man-hours for fellow developers. Enhanced and supported NY state, Single File, and Custom Edit validator module. These modules validate millions of tax forms that are processed through Brainware OCR. Member of the weekly build and regular release teams. Rewrote critical parts of the tax validator application for NY State. Corrected faulty

inheritance, introduced typed datasets and separated presentation aspects from business. Toolkit : C#, Python, .NET 3.5,4.0, MSbuild, SQL Server 2005 & CE, Regular Expressions, and GNU utils.

Software Developer at JPMorgan Chase (Consultant)

June 2011 - June 2012 (1 year 1 month)

Built a complete relationship data graph for Customer tracking application. The graph maps every UI component to its related stored procedures, tables, functions and, eventually, to the database field. Later, this graph helped in more ways than imagined. Part of the core development team in a fast-paced check processing application; Had exposure to contemporary software practices such as rapid development, continuous integration, nightly builds, daily reviews, concurrent test cases and automated builds. Member of the engineering team responsible for enhancing, testing and deploying seven Web applications built using ASP.NET framework. Part of the development team that changed the authorization framework from SSO policy servers to enterprise backbone EAST services. Developed an automated build utility that creates build packages and configuration files. Created a proof of concept using the JBoss drools engine for a rules driven application. Toolkit : C#, ASP.NET, ASP, NUnit, Java, Drools, SQL Server 2005 database, SSRS and vb6 .

Application Lead Engineer at Toyota Motor Sales (Consultant)

October 2008 - March 2011 (2 years 6 months)

Led a team that was responsible for eight applications that support Toyota's functional areas such as Customer services, Dealer operations, and Finance and Education services - all serving more than 1000 users. Identified and improved 94 pain points in all 8 applications thus saving 3000\$ in person hours. Designed and developed a regression testing tool that gained firmwide recognition; Won "Star Performer" award from Toyota Motor Sales. Produced better code by refactoring control flows, improving standards and cleaning the dead and unreachable; Final statistics showed a 64% reduction in code complexity and 10% improvement in system stability.

Cofounder at BookMark Lending Library

May 2007 - May 2009 (2 years 1 month)

Partnered with my friend and started our own Small Business - Book Lending Library- that caters to more than 800 book readers and houses more than 12,000 books. Designed and organized Innovative marketing campaigns - Childfest & Naturefest - that increased business footfall by 20% and children membership by 50% per month. Introduced the concept of Virtual library- a common stock of books shared by two libraries - that significantly reduced inventory costs. Lauded by National Newspaper, "The Hindu" and Local Newspaper, "Adyar Times" for services to the book reading community. Invested more than 60 hrs per month, while still serving as a Full-time Software Professional. Experienced and overcame classic challenges in a business: sales slump, poor logistics, failed promotions, capital crunch, irate customers, challenging employees, and threatening termination. Toolkit : Leadership, Communication, Creativity, Open Mindedness

Web Developer at Cognizant Technology Solutions

October 2005 - October 2008 (3 years 1 month)

Part of the team that Designed and Developed pricing application; Predominantly worked on custom controls, data-bound events, CSS templates and AJAX requests. Received the “Diamond in the Rough” award for learning the pricing system and producing quality bug fixes in a short time. Worked in a Project Management system. Created charts and graphs using graphics class libraries in dotNET; Worked in reports using SQL server reporting services. Hosted ASPNET webpages in Plumtree portal, a.k.a BEA Aqualogic. Toolkit : C#, SQL server 2000 & 2005, AspNET v 1.1 & 2.0, ADONET, Aqualogic and SSRS.

Test Scores

GMAT - Graduate Management Aptitude Test

December 2010 Score:720(94%)

Certifications

C# 4.0 Master

Brainbench License 7691089 November 2012

ASP.NET 4.0

Brainbench License 7691089 February 2013

JavaScript 1.5

BrainBench License 7691089 October 2012

SQL Server 2008 Programming

BrainBench License 7691089 August 2012

Design Patterns

Brainbench License 7691089

C# 3.0 Master

Brainbench License 7691089 January 2012

Object Oriented Concepts

Brainbench License 7691089

SQL Server 2005 Programming

Brainbench License 7691089

.NET framework Fundamentals

Brainbench License 7691089

Presentation Skills

BrainBench License 7691089

Project Management

Brainbench License 7691089

UML

Brainbench License 7691089

Business Communication

Brainbench License 7691089

Business Mathematics

Brainbench License 7691089

MicroEconomic principles

Coursera - University of Illinois Urbana Champaign

Projects

2048 Asisst

June 2014 to Present

Members:Antony Deepak Thomas

Artificial intelligence game solver for the popular 2048 game. Game at <http://www.windowsphone.com/en-us/store/app/2048-assist/dcf7723d-8ad2-46f4-a5ce-7f43d8a72bc7>

Hercules 500\$ Robot

November 2013 to Present

Members:Antony Deepak Thomas

Worked on a community project for building a 500\$ robot.

Stanford CS97Si - Competitive programming course

March 2014 to Present

Members:Antony Deepak Thomas

Solutions for Stanford programming course CS97SI. The problems are from Peking Online Judge.

Mazesolver

May 2013 to Present

Members:Antony Deepak Thomas

Maze puzzle solver using graph search.

Practical DataStructures & Algorithms

January 2013 to Present

Members:Antony Deepak Thomas

A Collection of popular and interesting datastructures, algorithms and programming puzzles using C# and Python. More than 30 algorithms and one new almost every week.

CS212 - Solution Book

July 2012 to Present

Members:Antony Deepak Thomas

Solution book for the CS212 course. Includes algorithms for 1) Parking Lot Search - Shortest Path 2) Logic Puzzle - Similar to Zebra puzzle 3) Darts Probability - Mathematics 4) Portmanteau - Word game algorithm

paellachicago.com

March 2012 to April 2012

Members:Antony Deepak Thomas, Gobi Muthuramalingam

Developed a website for my friend for his startup company,paellachicago.com Toolkit : HTML5, CSS3, JQuery and JavaScript

Courses

Independent Coursework

Design of Programming Languages	CS212
Programming Languages	CS262
Software Debugging	CS259

Advanced Design and Analysis of Algorithms from
Stanford Online

Education

ICFAI University

Post Graduate Diploma, Logistics, Materials, and Supply Chain Management, 2006 - 2007

Grade: 3.5

Anna University

Bachelor of Engineering (B.E.), Electrical and Electronics Engineering, 2001 - 2005

Activities and Societies: Science Club (Executive Chair), Maths Club(Executive council member), EE club
(Executive council member)

Skills & Expertise

Microsoft SQL Server

C#

ASP.NET

ASP.NET MVC

jQuery

JavaScript

Python

HTML

CSS3

.NET CLR

NUnit

Managed Extensibility Framework

Design Patterns

Data Driven Testing

LINQ

MSBuild

Regular Expressions

Bash

CSS

Database Design

Software Development

Languages

English

(Full professional proficiency)

Tamil

(Professional working proficiency)

French

(Elementary proficiency)

Interests

Tennis - USTA Flexi league player Board Games - Member of Chicago gaming meetup group.

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[Contact Antony Deepak on LinkedIn](#)