Alok Choudhary

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Summary

- Software Developer with 8 years of extensive experience in Object Oriented Analysis, Design and Software Engineering for Telecom, Logistics, Retail and Revenue applications With Technical and Functional Subject Matter Expertise.
- 4+ years experience in iOS development using Objective C and XCode 4 to Xcode 7.3. Over the past year and half have also delved into Swift, currently working on Swift 2.2
- Experience with memory management including MRR, ARC and Autolayout in code as well as in storyboard.
- Experience in fixing memory based bugs using Instruments and Static Analyzer
- Familiar with unit testing SenTestingKit and XCTest
- Able to implement and coordinate all stages of system development efforts, including requirements, definition, design, architecture, testing for iOS 5-9.3
- Knowledge of CoreLocation, UIKit, MapKit, AVFoundation, ALAsset, ALAssetsLibrary, CoreFoundation, CoreData, NSURLSession, CocoaPads, Crashlytics, Fabric, SpritKit, AdNetworks eg. AdMob, iAd, mpPub, RebMob
- Possesses an in-depth experience in coding and deployment of Bash Scripts and PERL and Python scripts along with XML and JSON parsing and multithreading in IOS Realm.
- Trained and possess hands on experience with development tools like XCode, RSA 7.0.0, Oracle 9i and Oracle 11g, SQLite, CoreData, Team-City and Jenkins.
- Experience extensively used Git, GitHub, Subversion for Code Management and Version Controlling.
- Possesses sound knowledge across diverse domains –Telecom, Logistics & Retail; Worked with several Fortune 100 companies such as:
  - **AT&T**
  - **FedEx**
  - **Wal-Mart**
  - **IBM**
- Possesses sound knowledge of Software Development Life Cycle in CMM environment - Business Requirements Analysis, Design, Development and Unit Testing.
- Experience with different development methodologies such as Agile and TDD.
- Excellent team player and proven track record working in various team sizes performing cross-functional roles.
- Great understanding of design patterns like MVC, Singleton, Observer, adaptor and composite.
- Energetic self-starter with Aptitude for analyzing, identifying problems, and coming with out of the box solutions.
- Experience in integrating applications with cloud based frameworks including Dropbox, Box and Google Drive.

Technical Skills

Programming : Objective C, Swift, C, C++, Java
Scripting : Apple Script, Shell (Korn Shell, bash), Perl, Python, awk
Web Technologies : XML, JSON, REST, SOAP, GCD, Operation Queues
RDBMS : SQL Server 2008, Oracle 9i, 11g, DB2, SQlite, Realm
Operating Systems: Mac El Capitan, Yosemite, Maverick, and Linux/Unix

Tools:, **JIRA**, **StarUML**, **XCode,** HP ALM/Quality Center, Rational Clearcase, ClearQuest RSA 7.0,

Crash Analytics Tools: Crashlytics, Fabric.io, Apple Crash Reports, CA Analytics, Google Analytics

Build Automation and Integration: Team-City, Jenkins, Active Directory

Version Control Tools: Subversion, Git, GitHub, SourceTree

Frameworks: SQLite, CoreData, CoreLocation, AVFramework, MapKit, UIKit

Independent Apps

Tappy Mania Bird Edition : https://itunes.apple.com/us/app/tappy-mania-bird-edition/id1021135856?mt=8 **(Being upgraded to swift 2,2)**

Indian Prayers Lite : https://itunes.apple.com/us/app/indian-prayers-lite/id963596993?mt=8 **(Hybrid of Obj C and Swift)**

Chanakya Lite : https://itunes.apple.com/us/app/chanakya-lite/id905718461?mt=8(Obj C)

Continuous Education

Cousera Swift Specialization Course Certificate :

https://www.coursera.org/account/accomplishments/specialization/T57RW7BPAQ9R
https://www.coursera.org/account/accomplishments/records/8MQN4GZBZL3Z
https://www.coursera.org/account/accomplishments/records/KBFPMN2X4529

Industry Experience

AT&T (Digital Life)
Sr. iOS Developer Atlanta, GA
September 2015 – July 2016
Link: **https://geo.itunes.apple.com/us/app/at-t-digital-life/id580630991?mt=8**
About the app: AT&T Digital Life works with Apple Watch! Stay connected and in control. This app lets AT&T Digital Life customers view and control their Digital Life system while on the go. An active Digital Life account is required..

- Heaviliy involved in to make the app to handle both portrait and landscape autolayout, constraints(in code as well as storyboard), and sizeclasses
- Worked in an agile environment with daily standup meetings, and that encouraged communications between the teams, like testers, developers, designers, etc.
- Utilized JIRA for bug/feature tracking; also in tune with instruments for performance testing/improvements
- CocoaPods made use of to faciliate the addition of third party frameworks/libraries, likeRESideMenu
- Worked on Xcode 7, iOS 8-9; apart from standard regular frameworks & libraries worked heavily with Digital life RestFul API to keep Client Stateless.
- As a full capacity iOS developer duties included handling requests in JIRA made by product
- In charge if handling bugs of all priorities discovered and coming from the QA team
- Had a great opportunity to be in sync with 7 other developers on the team and work in harmony to get the best results in the shortest ammount of time possible
- Was in charge of setting up the application in Test Flight and getting it ready for enterprise build for in house testing and demo purposes
- Completly wrote Side Menu from scratch, Added Foresee SDK, CA Mobile

Analytics SDK
- Adding accessibility throughout the App. Deeper level of understadnding of Semantic accessibility

Carnegie Learning Inc. (digitalACE)
Sr. iOS Developer Pittsburgh, PA
November 2014 – Aug 2015
Link: https://www.carnegielearning.com/learning-solutions/math-worktexts/digitalace/
About the app: digitalACE utilizes the power of an iPad with the customizable, research-proven Carnegie Learning content to accelerate students' mathematics achievement.

- Significant accomplishments include migrating a substantial portion of the app to a hybrid state, imtegrating MathJax framework for all mathML expressions, several beta releases as well as 2 released versions of the app
- Worked in an agile environment with daily standup meetings, and that encouraged communications between the teams, like testers, developers, designers, etc.
- Utilized JIRA for bug/feature tracking; also in tune with instruments for performance testing/improvements
- CocoaPods made use of to faciliate the addition of third party frameworks/libraries, like AFNetworking
- Worked on Xcode 6-7, iOS 7-9; apart from standard regular frameworks & libraries worked heavily with Carnegies internal DifferenceEngine Library
- As a full capacity iOS developer duties included handling requests in JIRA made by product management as well as book content writers
- In charge if handling bugs of all priorities discovered and coming from the QA team
- Had to be in sync with 5 other developers on the team and work in harmony to get the best results in the shortest ammount of time possible
- Was in charge of setting up the application in Test Flight and getting it ready for enterprise build for in house testing and demo purposes
- Wholly wrote the input sub-system AnswerPad, which is the most usable feature of the App as students/teachers have to respond to everything via it
- Solely added the capability for the app to handle both portrait and landscape mode as it was originally just a landscape app; autolayout, constraints, and sizeclasses where leveraged for this
- Heavy usage of NSOperations, and NSURLSession throughout project

Verizon Wireless (Internal App)
iOS Developer Boise, ID
Apr 2013 – Oct 2014
- Compiled and built LDAP library for iOS platform XCode 5 for iOS 7.0
- Created UMT (USER Management Tool) internal iPad app for Managers and teamleads.
- App worked with active directory and accesses the active directory to fetch the users.
- Used UIPopover controller, split view controller.
- App does inventory as per user as well as attendance and location systems.
- Ability to create, disable and archive accounts using LDAP protocol.

- Designed, Developed and Deployed Equipment Management Module.
- Designed UI and Application flow created using UIKit.
- Deploy notes and minutes of meetings sharing using MessageUI.
- Integrated app with Corporate Box.com account to store reports Using Box API.
- Used GCD to connect to RESTful web services.
- Used NSJSONSerialization to parse JSON response.
- Fixed bug documented in JIRA by QA Team.
- Created test cases to streamline and optimize code using XCtest.

Micron Technology (Pop Video)
iOS Developer Boise, ID
Oct 2011 – Mar 2013
Link: https://itunes.apple.com/us/app/pop-video/id503951133?mt=8

- Worked on Micron technologies Pico Projector's companion app Called Pop Video.
- App was built for iOS 5.0
- All communication happened through 30 pin connector.
- Used ALAssetsLibrary and ALAssets to read photo and videos from local library.
- Used GCD to connect to RESTful web services.
- Used NSJSONSerialization to parse JSON response.
- Used UIWebView to display videos from YouTube.
- Worked on the Proof of concept of Facebook video feature.
- Used Facebook SDK to retrieve videos from user's timeline.
- Designed User Interface and App flow created using UIKit.
- Created test cases to streamline and optimize code.
- Fixed bugs found by QA team.
- Ran pilot iOS project for continuous integration.

FedEx Services
Software Developer Orlando, FL
July 2010 – Sept 2011
Standardize architecture in preparation of moving FedEx Revenue System applications to a new Enterprise Data Center (EDC) in Colorado Springs. The project involves compiling the entire revenue systems code and identifying/fixing all the issues that arise while porting from Red Hat Linux AS3.9 to AS5.3 and also ensuring backward compatibility. This assignment requires deep understanding of the Linux internals and knowledge of C++ linker/compiler.
Technologies : Unix/Linux shell and awk script, C/C++, Tuxedo
Role & Responsibilities: As Software Developer

- Migrated FedEx revenue generation system to new Red hat Linux AS5.3 that involved rewriting and refactoring the source code of whole revenue system.
- Enhanced FedEx rate server in order to make it work with Tuxedo OLTP (Online Transaction processing)
- Refactoring and recompiling FedEx Transaction libraries due to operation system migration.

Wal-Mart
POS Developer Bentonville, AR
Mar 2010 – Jun 2010

Technologies: POS Machine, Java, C++, RSA 7.0.0
Description: Point of sale (POS) systems to provide businesses with the capability to retain and analyze a wide variety of inventory and transaction data on a continuous basis. POS systems have been consider as a valuable tools for a wide variety of business purposes, including refining target marketing strategies; tracking supplier purchases; determining customer purchasing patterns; analyzing sales of each inventory item, department, or supplier; and creating reports for use in making purchases, reorders.

Role & Responsibilities: As Point of Sale Developer
- Developing Wal-Mart's Point of sale system on IBM 4960 POS operating system for different geography like Peru, Brazil, Chile and Guatemala.
- Engaging IBM online Debugger to watch and enhance source code at machine level.
- Working against tight deadlines of small pilot projects.
- Developed and enhanced against Walmart's ticket kiosk.

IBM
SureSwitch Developer Bangalore, India
Clients: HMV, Dunne's, Waterstone, Morrison's, UK
October 2009 – Feb 2010

Technologies: RSA 7.0.0, DB2, Unix, Shell Scripting
Description: SureSwitch provides facilities for processing of online card payment authorization, and has the ability to authorize transactions locally based upon the Card Scheme configured for the outlets. It supports the UK standard APACS30/40/29B protocols and provides X.25 and TCP/IP communications facilities for connecting to external systems.

Role & Responsibilities: As a SureSwitch Developer

- Analysis, Design, Debugging and Unit testing in RSA.
- Prepared test plan strategies and maintained all records and documentation.
- Interacting with client for requirement gathering for new release.
- Communication Bridge between client and off shore team.
- Preparing installation and deployment plan.
- Writing configuration and deployment bash scripts for SureSwitch.
- Writing shell scripts to query DB2 and embedding awk to extract the data.

AT&T, USA
Software Developer Bangalore, India
March 2007– Sept 2009

Technologies: C++, C, Java, Oracle 9i, DB2
Description: **GPC:** General Purpose Collector enables the cost transfer and consumption management business for all non-DP/MVS related ITS service offerings with its Object Oriented design.

PSAM (Protection Switched Automatic Manager) is the OS (Operation System) which supports the AT&T Private Line T1.5 Access Protection Capability (APC) and Network

Protection Capability (NPC) features.

PRIMES (Profile Reporting Interface for Management and Engineers System) the central data store for billing profiles. A billing profile is a record that contains pertinent information for billing like billing or account number to which charges are to be disbursed based on the organizational percentages.

Role & Responsibilities: As Software developer role consisted of application development, analysis, design, debugging, unit testing, peer code review, knowledge sharing and preparing the installation plan for the project.

- Analysis, design and debugging suit of AT&T billing applications in C++.
- Designedand enhanced front end system in Java.
- Wrote back end support engine for DB2 and Oracle 9i in shell script to query, merging and/or extracting data to and from transit DB2 database.
- Wrote Application server heath check system in shell script
- Release and deployment management
- 24x7 stand by for application support team.

Education and Certifications

Bachelor of Computer Science & Engineering
Institute of Engineering and Technology, Rajasthan University, India

IBM Certified Specialist - AIX System Administration, Completed training on Advance Shell Scripting, C Programming, PL/SQL Developer