

PRAKASH NATARAJAN

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EDUCATION

Master of Science in Computer Science and Engineering

State University of New York, Buffalo (GPA 3.6)

August 2014 – December 2015(expected)

Bachelor of Engineering in Electronics and Communication

Anna University, Chennai, India (WES evaluated GPA 3.48)(percentage 78%)

June 2007 - May 2011

TECHNICAL EXPERIENCE

Languages : Python, Java, Javascript, AngularJS, Swift, C, C++, C#, ASP.NET, Android, HTML5, CSS.
IDE Tools : Sublime Text, Xcode, Eclipse, Android Studio, Visual Studio, IPython.
Platforms : Mac OS X, Windows, Ubuntu, Red Hat Linux.
Others : Git, GitHub, JSON, Vim, SQL server.

CERTIFICATION: MCTS .NET framework 4 web applications development from Microsoft.

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern

June 2015 – August 2015

Amazon Web Services(AWS) Mobile – Lambda team, Seattle, WA

- Developed a framework for dynamic UI rendering from the configuration file and data rendering by an Interface implementation.
- Reduced the time of adding the support for new application from two weeks to just two days and enabled easy code maintenance by abstracting the login to JSON configuration file.
- Front end was developed with AngularJS and backend was developed with Java.

Programmer Analyst

June 2011 - March 2014

Cognizant Technology Solutions (P) Ltd, Chennai, India

Select Desktop for underwriters:

- Handled the development and enhancement activities of MVC based .NET framework 4 application in Insurance domain.
- Undertook the responsibility of server migration for coding and coordination of whole application from XP to Windows 7.

Production Application Dashboard for Managers, Directors and VP:

- Enhanced the dashboard which was used for displaying the time critical defects. Also worked with quality assurance team for running and maintaining automated scripts. Integrated the portal with the results of QTP.
- Developed a mailing windows service to email the screenshot of the defect with its further details of the exception and assisted in database server migration from SQL server 2008 to 2012.
- Stack: ASP.NET, C#, VB.NET, Javascript, VB scripting.

Support for webgen, CLPortal and Virtual desktop application:

- Owned 3 insurance industry applications for underwriters and handled the production level tickets external customers.

ACADEMIC PROJECTS

Priority Scheduler and Virtual memory for Pintos:

Fall 2014

- Implemented the kernel priority scheduler for Pintos operating system and handled priority inversion with priority donation of high priority threads to low priority threads and also designed the virtual memory for the Pintos.

Object Oriented top-down Parser:

Fall 2014

- Designed a parser with a team of two in Java that translates a program into JVM byte codes to generate the object and sequence diagram of the parser in Jive exactly as specified in the requirements of the grammar.

Functional and Logic Programming:

Fall 2014

- Implemented alpha equivalence of lambda calculus in standard meta language with functional programming.
- Implemented beta and eta equivalence of lambda calculus in Prolog with logic programming. Designed a program in Prolog to backtrack and find the possible paths from one location to another.

Android Simple and Group Messenger:

Spring 2014

- Developed group messenger with FIFO ordering by using Chord, a peer to peer distributed hash table, and using DynamoDB like table.
- Stored all messages in the android content provider using sqllite and also supported recovery on crash feature for the messenger.

Stock Volatility using MapReduce:

Spring 2014

- Calculated the volatility of stocks using java Hadoop, Pig, Hive, Hbase, Accumulo and compared its performance.

Handwriting Recognition:

Spring 2014

- Using numpy library designed a hand writing recognition system using feed forward neural networks in python. It successfully classified the handwritten number with accuracy of 87%.

OPEN SOURCE: Contributed to CTCI GitHub repository in Swift programming language and ui-select repo in AngularJS.

RELEVANT COURSES:

Data Mining, Data Intensive Computing, Distributed Systems, Design and Analysis of algorithms, Fundamentals of Programming languages, Operating system concepts, Software Engineering, Machine Learning.

PERSONAL DATA:

LinkedIn: <http://lnkd.in/bEhZRiz>

GitHub: <https://github.com/prakashn27>