

PRAKASH NATARAJAN

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EDUCATION

Master of Science in Computer Science and Engineering

State University of New York, Buffalo (GPA 3.5)

Bachelor of Engineering in Electronics and Communication

Anna University, Chennai, India (GPA 7.8)

Fall 2014 – May 2016(expected)

June 2007 - May 2011

TECHNICAL EXPERIENCE

Platforms : Mac OSx, Windows (8, 7, XP, 98, Vista), Ubuntu.
Languages : Java, Swift, C, C++, C#, asp.net, HTML, javascript, python.
IDE Tools : Xcode, Eclipse, Android SDK, Visual Studio, Sublime Text, Ipython.
Others : Sql server, github, git, QTP, SoapUI, TortoiseSVN, HP Quality center, BMC Remedy Tool.

ACADEMIC PROJECTS

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.

Design Pattern implementation in Java:

Fall 2014

- Implemented the Decorator pattern, by achieving the inheritance with delegation and association and also implemented a custom made Iterator for BST, which check for equality of BST using Iterator design pattern.

Priority Scheduler and Virtual memory for Pintos:

Fall 2014

- Completed the kernel priority scheduler of a pintos operating system and handled priority inversion with priority donation of high priority threads to low priority threads and also designed the virtual memory of the os.

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.

Know your plants:

Fall 2014

- As a part of software engineering course we went through the step by step method of software phases like Requirement gathering, Customer Specification Document, System Specification Document, Project plan and estimated cost analysis.

Face Recognition using back propagation neural networks:

Spring 2011

- Implemented using a PIC micro controller for analyzing the images by dilation and erosion, if false is false, we evoked an alarm. Our Aim was to use a better efficient mechanism than Principle Component Analysis, which is used in existing system of face recognition.
- Trained the neural network and recognized the images in the database and also evoked an alarm in case of an unrecognized face, thus achieving the security

PERSONAL PROJECTS

Algorithm Crackers:

June 2014- Present

- Coordinated with my friends to contribute to the open source github repository to discuss and practice different algorithms.
- Contributed to one of the famous open source github repository ctc in swift programming language.

Date-Time picker for android:

Sep 2014

- Designed the Date- time picker to select both date and time in one instance with out using any third party tools and also implemented a function to get the epoch time of the selected date time.

Pet Swift Projects:

Dec 2014

- Implemented few small projects like stop watch, guess the number, finding the prime in Swift Programming language for iOS.

PROFESSIONAL EXPERIENCE

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.
- * Undertook the responsibility of server migration responsibility for the whole application
- Got Certified for .net framework 4 web applications development. from Microsoft.

Production Application Dashboard for managers, Directors and VP:

- Enhanced the portal which were used for display of timer critical defects. Also learning and worked with quality assurance for running and maintaining automated QTP scripts in case of emergency. Integrated the portal with the results of QTP in run time.
- Stack: asp.net, c#, vb.net, java script, vb scripting.

Support for webgen, CLPortal and Virtual desktop application:

- Delivered the Technical support for around 3 application and handled the production level tickets for all the application.
- Provided late night support for version week end and also worked for flexible times with the running time of the application.

RELEVANT COURSES

Design and Analysis of algorithms, Fundamentals of Programming languages, Operating system concepts, Software Engineering, Computer Networks, Computer Architecture, Data Structures.

PERSONAL DATA:

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

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