

SOFTWARE DEVELOPMENT ENGINEER

Summary

To participate in development of more efficient and scalable software solutions, with exposure to new technologies to achieve broader domain expertise.

Highlights

- PHP, C++, HTML, XML, CSS, MSSQL, Flex 4
- Agile Development Tools - Rally, Jira
- Others - Bugzilla, Subversion, Eclipse IDE, SSH, XAMPP/LAMPP packages
- Frameworks - Zend, Rails
- Office Productivity Tools - Adobe Flash Builder, Adobe Photoshop

Accomplishments

- Won the annual employee of the year award for working on integrating the company product with Cisco ISE.
- Lead self-organizing teams during product development cycles.
- Second person on call in times of customer crisis. Have worked in close association with the DBAs to solve database performance issues on live servers.
- Proposed and guided the development of a client traffic simulator to imitate multiple devices to test server performance.

Work History

01/2011

Senior Software Engineer Ring i/4 Irvine , CA

07/2008 to 07/2010

Teaching Assistant Sharp Decisions i/4 Miami , FL

08/2009 to 12/2009

IT Helpdesk Stifel Nicolaus i/4 Garden City , NY

01/2007 to 07/2008

Software Engineer Surewaves MediaTech Pvt. Ltd. i/4 City , STATE

Experience

01/2011

Software Development Engineer Company Name i/4 City , State

- Lead self-organizing teams during product development cycles.
- Regularly give project presentations to the clients during sprint reviews and product acceptance.
- Responsible for training new hires.
- Led the development and integration with Cisco ISE. Including configuring the set up and collaborating with the Cisco team to finish the project and setup.
- During the summer on 2015, proposed and developed a multiple device simulator to test the server performance. Appointed 2 summer interns and guided them to design and code the product. The simulator is currently being used by the performance testing team.
- Experienced in working on multiple projects of varied complexity, adept at adapting quickly to understand new requirements and challenges to be able to start delivering quality product.
- Generating quality, minimum regression code.
- Being able to join teams in the middle of a coding cycle and get up to speed to start contributing actively.
- Designed and coded multi-threaded, multi-socket solution for adding Android Google Cloud Management support to send messages to multiple devices from the MDM server.
- Learnt iOS device Apple Push Notification management and became the in-house expert on APNs, maintaining the code and fixing issues that arose.
- Helped redesign portions of the product to solve performance issues.
- Worked in close association with the DBAs to solve database performance issues with the old code in the project.
- Assisted a team to add threading and multiprocessing through web-gardens to increase the number of connections made to server which allowed the server to handle requests from more than 2000 devices a significant increase from 300.
- Helped through several more redesigns, today the server supports around 60000 iOS and Android devices. Making regular server connections.
- Got familiarized with general process of software upgrade and helped design the UI to automatically download upgrades to be installed on a remote server.
- Investigated and worked on upgrades for various iOS and OS X versions as they released, to automatically send various payloads to the devices from the server.
- Joined a major project, for adding users using LDAP to the system, even as the production was half way through and was able to understand and point out design flaws. Helped the team re-plan some aspects of the project, like the upgrade of old customers that already were using the old feature now being enhanced. Helped the team regroup and test various features that had already been coded to re-evaluate the feature.
- Worked on project to add OpenID authentication to the dashboard. Finished to project within half the time estimated for the coding cycle.
- Worked with a team to find a way to sift through a dataset to perform string comparison to calculate compliance of certain devices. Found a way to bring down calculation time from 1 min to 20 secs, to perform a series of calculations on a large dataset.
- Worked on adding SOAP API support to the product in order to be able to merge it with another product.

- Inventory manager of the department.

Personal after-hour projects: Â

- Designed and developed smaller projects personally for the company.
- Added several iOS resources like Webclips, APNs to the solution that could not be added due to lack to resources.
- Added support to remotely managing Provisioning profile on iOS devices enrolled on the server.
- Worked on code clean-up ad maintenance projects.

08/2008 to 12/2010

Teaching Assistant & IT Helpdesk Company Name

- Worked as a Teaching Assistant for CSE 101 for 4 semesters (classroom lecture with lab sessions)
- IT Help desk for Department of Wildlife and Fisheries. Maintained laboratory computers and staff laptops.

07/2007 to 07/2008

Software Engineer Company Name i¼ City

- Spearheaded the design and development of a Network tracking system (both server and client-side) that monitored the health of all the systems connected to the network at various remote locations, along with syncing the content throughout the television network
- Designed the process of packaging and encoding the product. Automated the installation process Assisted in development of a Corporate Youtube-like content share website, that was used to schedule the content to be played on the Television Network
- Worked in tandem with Indian Institute of Science in-order to create an eye ball tracking software to monitor the viewership
- Initiated the documentation for various company products.

01/2007 to 06/2007

Intern Company Name i¼ City

- Worked on Website Harvesting Tool of the company for generating news feeds for RSS.
- Helped in designing the user interface for the various company tools.
- Worked on establishing the basic company technology by gauging the performance of various languages, including HTML, Perl, PHP and C#.

Education

2011

Master's : Computer Science and Engineering Michigan State University GPA: GPA: 3.93/4.00

Computer Science and Engineering GPA: 3.93/4.00

Publications: Â

- K.Miyan and J.Weng, "WWN-Text: Cortex-Like Language Acquisition with "What" and "Where"," in Proc.10th IEEE International Conference on Development and Learning, Ann Arbor, MI, Aug 18-21, 2010.

Academic Projects: Â

- **WWN: Language Acquisition and Generalization Using Association (Master's Thesis):** Worked on a developmental, general purpose model for language acquisition using multiple motor areas. The neural network that was primarily cortex inspired, modeled the human lexical semantic area along with the dorsal and ventral pathways. The system was the first what-where network for language acquisition that could perform association based reasoning or generalization to create new sentences and learn semantics. I was able to simulate early language acquisition in children of ages 2 to 6.
- **Phishing Solution (Network security project):** Developed a program to detect phished websites used data mining and hashing methods to identify the content of the page.
- **Baseball MVP Prediction:** DataMining project that ranked the players according to their statistics to predict the Most Valuable Player.
- **E-ARMOR:** Software engineering project focusing on the various cycles of software development, I was a part of a team of four that designed and develop an electronic equivalent of the Physician's Desk Reference to provide the health analysis and polypharmacy effects of the various drugs being administered based on a patient's vitals.

2002

Bachelor's : Computer Science and Engineering ICFAI University India GPA: GPA: 9.57/10.00 Computer Science and Engineering GPA: 9.57/10.00

Interests

- Regular participant in half marathons.
- Traveling and travel research.
- Regularly help out with software startups. Designing, developing prototypes. Currently involved with a company developing an online tutoring software for entrance exams in India.

Professional Affiliations

- Was a Disciplinary Committee Member, ICFAI University
- Was appointed the member of the Culture Committee, ICFAI University
- As the president of Social Service Club worked with different organizations like, Karuna Vihar, an early intervention center for the mentally challenged kids, Missionaries of Charity and National Institute for Visually Handicapped (NIVH), India

Additional Information

- NASA MUST mentor 2009, 2010.
- Scholarship holder for high academic performance throughout the under graduation.
- University Silver Medalist in Computer Science Engineering, ICFAI University.
- Won the Most Outstanding Student of the College Award, ICFAI University, 2007.
- Active member of organizing team and in-charge of the Advertising Committee of an Inter-Collegiate National Technical and Academic Fest -'Quanta 05.

Skills

Painting (oil on canvas).

Writing poetry.