**Prasad Nimmagadda**

**Sr. DEVOPS & CLOUD Engineer**

Ph. 707-867-1501 Email: [prasadnp13@gmail.com](mailto:prasadnp13@gmail.com)

**PROFESSIONAL SUMMARY:**

Around 8 years of experience in IT industry with a major focus on Azure DevOps operations, Linux/Unix and VMware administration, Build and Release management involving extensive work towards automating, building, deploying, managing and releasing of code tightly maintaining Continuous Integration, Continuous Delivery and Continuous Deployment across multiple/distributed environments.

* Experienced with deployments, Maintenance and troubleshooting applications on Microsoft Cloud infrastructure **AZURE**. Also managed Clusters with various Servers in **Azure** Cloud **Resource Groups** and monitored via remotely run scripts **Ambari, Azure Data Factory** and **Blobs**.
* Experienced in configuring Cloud platform such as Virtual Networks Multi-site, Cross-site, VMs, Azure AD, Load Balancers, **Azure** **SQL**, Cloud Services, etc.
* Good working experience with **PowerShell** for installing windows features and roles and for automating monthly security patching also used **PowerShell DSC** within **Azure** Automation runbooks to configure machines.
* Worked on Amazon Web Services cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud** (**VPC**), Public and Private Subnets, **Security Groups**, Route Tables, **Elastic Load Balancer (ELB)**.
* Experienced in deploying Java and .net applications to cloud by utilizing various **AWS cloud services** like **AWS** Code Deploy, **Route53**, **EBS**, **S3**, **EC2**, Cloud Formation, **ECS**, **SNS**, **Lambda**, **SQS**, **Cloud-Front**, and **Auto-Scaling**.
* Experienced in **ELK (Elastic, Logstash, and Kibana)** for centralized logging and then store logs and metrics into an **S3** bucket using **Lambda** function and Used **AWS Lambda** to manage the servers and run the code in the **AWS**.
* A unique experience with **Pivotal Cloud Foundry (PCF)** architecture and design, troubleshooting issues with platform components, and developing global/multi-regional deployment models and patterns for large-scale developments/deployments on **Cloud Foundry** and **AWS**.
* Extensively used Google **stack-driver** for monitoring the logs of both **GKE** and **GCP** instances and configured alerts from **Stack-driver** for some scenarios.
* Experience in working with **Terraform** key features such as **Infrastructure as a code (IAAC)**, Execution plans, Resource Graphs, Change Automation.
* Managed **AWS** infrastructure as code using **Terraform**, Expertise in writing new plugins to support new functionality in **Terraform** and in writing the infrastructure automation scripts in **Python**, **Cloud formation**, and **Terraform.**
* Experienced in **Linux**/**Unix** System Administration, System Builds, Server Builds, Installations, Migration, Upgrades, Patches, Troubleshooting on **RHEL** 4.x/5.x/6.x, **Debian**, **CentOS**, **and SuseOS**.
* Managed version control tools like **SVN**, **GIT,** and **Bit-bucket** for branching, merging and resolving conflicting errors.
* Expertise in Java build tools like **ANT**, **MAVEN** for the building of deployable artifacts such as (jar, war & ear) from source code and **MS-Build** for **.Net**.
* Experience in working on **DevOps**/**Agile** operations process and expertise in areas like Unit test automation, Build & Release automation, Environment Management, Service/Change Management, Incident Management.
* Experience in configuring and managing **Puppet** master server and also experience in updating and creating modules and pushing them to **puppet clients**.
* Possess working knowledge of **Python** and **Ruby** in writing scripts to automate software configuration process with **Chef** and **Puppet**.
* Worked with **Chef** Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote **Recipes** and **Cookbooks** and uploaded them to **Chef-server.**
* Experienced in deploying **Ansible** & **Jenkins** to completely provision & manage **EC2** instances, volumes **DNS** and **S3**.
* Responsible for Plugin-Management in **Jenkins** according to requirement Upgrading and Degrading Plugin Versions, also Skilled in implementing **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker** and **Red-Hat**.
* Created **Jenkins** workflows using a **Groovy** script to automate entire build and deployment process. Hands on experience with **Bash**, **Perl**, **Python**, and **Ruby** scripting.
* Having good implementation experience with installation and configuration of **Kubernetes**, clustering them and managed local deployments in **Kubernetes.**
* Experience in using containerization tools like **Docker** for deployment and build web applications, those can run consistently across any machine, have knowledge of containerization orchestration using **Kubernetes**.
* Experienced building **Jenkins** pipelines to drive all micro-services builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Experience in using **JFROG** and **Nexus** Artifactory Repository Managers for builds. Extensively worked on **Hudson**, **Jenkins,** and **Bamboo** for continuous integration to automate all builds and deployments.
* Deployment of sites and applications to multiple hosting environments using **TeamCity,** **Octopus** **Deploy** **& Azure**.
* Extensive experience in **JIRA** for creating bugs tickets, storyboarding, pulling reports from the dashboard, creating and planning sprints.
* Engineered **Splunk** to build, configure and maintain heterogeneous environments and in-depth knowledge of log analysis generated by various systems including security products.
* Expertise in managing and monitoring the server and network infrastructure using **Nagios**. Worked on User administration setup, maintaining account, Monitor system performance using **Nagios**.
* Managed to work in different environments **DEV**, **SIT**, **QA**, **UAT,** and **PROD** for various releases and designed instance strategies.
* Experience in documenting the process of code promotion, defect tracking and user guide for Subversion. And also responsible for Build and Install Schedules using **Unix** Cron jobs.

**TECHNICAL SKILLS:**

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| --- | --- |
| Cloud Environment | AWS, Windows Azure, Google Cloud (GCP), Open Stack |
| Operating Systems | Linux (Red Hat, CENTOS & SUSE, Ubuntu), Solaris, DEBAIN, Windows. |
| Scripting | Shell Scripting, Python, Ruby and PowerShell. |
| Languages & Web technologies | JAVA/J2EE, JavaScript, HTML5, CSS3, XML. |
| Version Control Tools | GIT, GITHUB, Subversion (SVN), CVS, Bitbucket. |
| Application Servers | Web Logic Application Server, Apache Tomcat, JBoss, Web Sphere. |
| Web Servers | Tomcat Apache, JBoss and Web Logic, Web Sphere, Nginx. |
| Automation & Configuration tools | Chef, Puppet, Ansible, Jenkins, Octopus, Saltstack, Docker, Vagrant, Terraform. |
| Orchestration Tools | Kubernetes, Docker swarm, Mesos. |
| Networking Protocols | TCP/IP, DNS, DHCP, Cisco Routers/Switches, WAN, LAN, FTP/TFTP, SMTP. |
| Virtualization Technologies | VMware ESXi, Windows Hyper-V, Power VM, Virtual box, KVM. |
| Monitoring Tools | Nagios, Cloud Watch, Splunk, ELK. |
| Build Tools | Maven, Gradle, Sonar, Ant, MS Build. |
| Bug Tracking Tools | Code Commit, JIRA, Bugzilla, Remedy. |
| Artifact | Jfrog, Nexus |

**WORK EXPERIENCE:**

**Sr. DEVOPS & CLOUD ENGINEER Nov 16 – Present**

**Freddie Mac**

**McLean, Virginia**

**Responsibilities:**

* Designed and developed architecture plan to create the **Azure** Cloud environment to host migrated **IaaS**, **VMs** and **PaaS** role instances for refactored applications and databases.
* Designed, configured and deployed Microsoft **Azure** for a multitude of applications utilizing the **Azure** **stack** (Including Compute, Web & Mobile, Blobs, Resource Groups, Azure **SQL**, Cloud Services, and **ARM**), focusing on high-availability, fault tolerance, and auto-scaling.
* Experience in Private Cloud and **Hybrid-cloud** configurations, patterns, and practices in Windows **Azure** and **SQL Azure** and in **Azure web** and database deployments.
* Experience in Designing **Azure Resource Manager (ARM)** Template and extensive experience in designing custom build steps using **PowerShell.**
* Experience in writing **Power shell** script to do Patching, Imaging, and Deployments in **Azure** and automated day-to-day activities by using Windows **PowerShell** and **Azure** CLI 2.0.
* Migrating Existing Active Directory and Exchange users to Microsoft **Azure** AD using **Azure AD Connect**, **Active Directory Federation Service ADFS** and DirSync tools.
* Developed **Azure** **OMS** Hybrid Automation **PowerShell** Runbooks to automate the creation of testing and QA environments using **vSphere**.
* Creating and Configuring **Azure Redis** cache, configuring cache clients using the **ARM**, **Azure** **PowerShell** and adding and removing objects from the cache.
* Enabled **Single-Sign-On (SSO)** feature for existing application integrating with **Azure Active Directory**. Also uploaded VHD files into **Azure Storage Account** using **AZ Copy**.
* Create the Virtual Machine cluster and load balance for VM's using **PowerShell** in SQL & Windows Environment.
* Performed **AWS cloud** deployments for web applications running on **AWS Elastic Beanstalk** with monitoring using **Cloud Watch** and **VPC** to manage network configurations.
* Used Amazon **Route53** to manage **DNS** zones globally & to give public **DNS** names to **ELB's** and **Cloud front** for Content Delivery also Implemented **Route 53** in effectively coordinating the load balancing & scaling functions.
* Launched Database for **MySQL 5.x** and **Oracle 11.x** using **RDS** in multiple Available zones have set up monitoring for CPU Utilization and limited DB connections by implementing alarms using **Cloud watch**.
* Automated the cloud deployments using Server-less, **Groovy,** and **AWS Cloud-Formation** Templates.
* Using **Bash** and **Python,** included **Boto3** to supplement automation provided by **Terraform** for tasks such as encrypting **EBS** volumes backing **AMIs** and scheduling **Lambda** functions for routine **AWS** tasks.
* Worked on **Terraform** for automating **VPC**s, **ELB**s, security groups, **SQS** queues, **S3** buckets, and continuing to replace the rest of our infrastructure and migration from traditional to cloud environment.
* Using **Terraform** as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers and Docker containers.
* Worked on creating custom **VPC** configurations and **Cloud-Formation** templates for rapid deployments, High Availability and well-Architected Frameworks for the Cloud.
* Created a fully Automated Build and Deployment Platform and coordinating code builds, Promotions and orchestrated deployments using **Jenkins**/**Hudson**, and **GitHub**.
* Integrated **GIT** with **Bitbucket** to develop a centralized online repository and create Pipelines and IP Whitelisting.
* Developed build and Deployment Scripts using **Maven** as build tool in **Jenkins** to move from one environment to other environments, also maintained Build Related scripts developed in **Maven**, **Python,** and Shell. Modified build Configuration files including **Maven’s** pom.xml.
* Worked on utilizing **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from GIT and use Maven to Build war/jar artifacts.
* Administered **Jenkins** for Continuous Integration and deployment into **Tomcat**/**Web-Sphere** Application Servers. Integrated builds with Code Quality Tools like **Cobertura**, **PMD** and find bugs.
* Rolled out **Chef** to all servers and used the **chef** node database to drive host configuration, DNS zones, monitoring, and backups, also written wrapper scripts to automate the deployment of cookbooks on nodes and running the **chef-client** on them in a **Chef-Solo** environment.
* Configured **Apache** web server in the **Linux** **AWS** Cloud environment using **Chef** Automation and evaluated **Chef** Framework and tools to automate the cloud deployment and operations.
* Designed and implemented **Chef**, including the internal best practices, cookbooks, automated cookbook CI and CD system. Made use of **Jenkins** for **Chef** CI, and **Rake** for the style.
* Implemented and designed **AWS** virtual servers by **Ansible** roles to ensure deployment of web applications. Used file module in **Ansible** playbook to copy and remove files on remote systems & Used **Ansible Tower** for running playbooks stream in real-time and amazed to see the status of every running job without any further reloads.
* Created and managed a **Docker** deployment pipeline for custom application images in the cloud using **Jenkins**. Also used **Docker** containers for eliminating a source of friction between development and operations.
* Used **Jenkins** and pipelines to drive all micro-services builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Integrated **TFS** with third-party tools like **Octopus** **Deploy** for Release process and worked on **Octopus** for deployment of **ASP.NET** applications.
* Installed and Configured **TeamCity** plugin for **Octopus**, **Octopus Deploy** including Tentacles for build and build automation, used **PowerShell** scripts with **TeamCity** and **Octopus Deploy**.
* Administered security and created projects using **TeamCity** and **Octopus Deploy**, setup Backup policies, performed health check etc. Integrated **TFS** with third-party tools like **Octopus Deploy** for the Release process.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes** applications managed **Kubernetes** manifest files and managed releases of **Helm** packages.
* Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes**.
* Installation and configuration of **ELK** stack (Log Management tool) in both legacy and **Docker swarm** mode and pipelined application logs from App Server to **Elastic search** (**ELK** Stack) through **Logstash**.
* Automated **Nagios** alerts and email notifications using **python** script and executed them through **Chef**.
* Worked on the setup of various dashboards, reports, and alerts in **Splunk,** also used for Log analyzing and improving the performance of servers.

**Environment**: AWS, Azure, MySQL, Oracle, Cloud-watch, Groovy, Bash, Python, Boto3, Terraform, Jenkins, Octopus, GitHub, Bitbucket, Maven, Tomcat, Apache , Web-sphere, Cobertura, PMD, Chef, Ansible, Linux, Rake, Docker, Kubernetes, ELK, Nagios, Splunk, GIT.

**DEVOPS & CLOUD ENGINEER Aug 15 to Oct 16**

**METTEL**

**New York, NY**

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing almost all of the **AWS** stack (Including **EC2**, **Route53**, **S3**, **RDS**, **Dynamo DB**, **SNS**, **SQS**, **IAM**) focusing on high-availability, fault tolerance, and auto-scaling in **AWS** **Cloud-Formation**.
* Build servers using **AWS**, importing volumes, launching **EC2**, **RDS**, creating **security groups**, auto-scaling, load balancers (**ELBs**) in the defined virtual private connection.
* Solid understanding of Project Life Cycle Management and strong experience on working of **AGILE** Methodologies. Good understanding of **Agile** tools **Rally**, tracking status and setting up velocities for the projects.
* Created **Python** scripts to totally automate **AWS** services, which includes web servers, **ELB**, **Cloud Front** distribution, database, **EC2** and database security groups, **S3** bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Developed **GIT** hooks for the local repository, code commit and remote repository, code push functionality and worked on the **GitHub**.
* Managed **Maven** project dependencies by creating parent-child relationships between projects. Implemented Continuous Integration and Continuous Deployment using **Jenkins** with build tools **Maven**, **Ant,** and **Gradle**.
* Strong experience utilizing **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from **SVN**/**GIT** and use **Ant**/**Maven** to build **war**/**ear** artifacts.
* Installed, configured and maintained web servers like HTTP Web Server, Apache Web Server and Web-Sphere Application Server on **Red Hat Linux**.
* Implemented automation with **Vagrant**, **Chef** on **AWS** for application testing, deployment, and development. Prepared documentation describing the configuration state of each item that was under CM control.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to **Chef**-server, Managed On-site OS/Applications/Services/ Packages using **Chef** as well as **AWS** for **EC2**/**S3** & **ELB** with **Chef** Cookbooks.
* Deployed web applications using **Puppet** by developing the manifests. Also responsible for creating and importing all the environments required running the project. Automation configuration and deployment of **Linux** and **Windows** machines using **Puppet**.
* Deployed and monitored scalable infrastructure on **AWS** & configuration management using **Puppet**, Also worked on Installation and configure **Mongo DB** Cluster nodes on different **AWS** **EC2** instances.
* Worked on **Docker** Hub, creating **Docker** images and handling multiple images primarily for middleware installations and domain configuration. Created Linux containers in **CoreOs** and **Docker** and Automated system using **Chef**.
* Virtualized the servers using the **Docker** for the Test and DEV-environments needs. And also configuration automation using **Docker** containers. Testing and deployment automation with **Docker**, **Jenkins**, and **Puppet**.
* Managed a **PAAS** for deployments using **Docker**, **Ansible,** and **Mesos** which reduced considerably deployment risks.
* Collaborated with development and Support teams to set up a Continuous Delivery environment with the use of **Docker**, continuous build and Delivery tools.
* Continuing architectural changes to move software system offerings to a distributed, service-based architecture; utilizing **Docker** technology.
* Working on creating various types of indexes on different collections to get good performance in **Mongo database** and extracted files from **Mongo DB** through **Sqoop** and placed in **HDFS** and processed it using **Hive**.
* High exposure to **Remedy**, **Bugzilla** and **JIRA** defect tracking tools for tracking defects and changes.
* Automation of OS builds and Application Installation through **Puppet** and **Chef**. **Nagios** for application and hardware resource monitoring. Writing new plugins in **Nagios** to monitor resources.
* Redesigned & redeployed the **Nagios** implementation. Nodes automatically added/removed themselves via **Puppet**.

**Environment:** Linux, Jenkins, Mesos, Chef, Puppet, SVN, GIT, AWS, Docker, Tomcat Apache, Vagrant, Ant, Gradle, Python, Agile, Rally, Maven, CoreOs, Remedy, Bugzilla, Jira, Nagios, Mongo DB.

**AWS & DEVOPS ENGINEER Sept 13 to July 15**

**Church Mutual Insurance**

**Merrill, WI.**

**Responsibilities**:

* Developed & implemented S/w Release Management strategies for applications according to the **agile** process.
* Gave users access to the **AWS** server with the right permission and also ensure that our sudoers file has the proper permission and also give sudoers permission to specific users using **puppet** master server
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet**master, agent nodes, and an admin control workstation.
* Implemented **puppet** modules for server housekeeping.
* Actively involved in architecting the **puppet** infrastructure to manage servers in different environments.
* Integration of **Puppet** with Apache and developed load testing and monitoring suites in **Python**.
* Utilized **CM** Tool **Chef** & created **Chef** Cookbooks using recipes to automate system operations.
* Solid understanding of **Linux** shell and **Perl** scripting, **UNIX**, **Windows**, build and release engineering principles.
* Involved in writing **pom** files to establish the code quality tools integration.
* Experienced in authoring **pom**.**xml** files, performing releases with the **Maven** release plugin, Mavenization of Java projects and managing **Maven** repositories.
* Implementing a Continuous Delivery framework using **Jenkins**, **Maven** in multiple environments.
* Implemented Release schedules, communicated the Release status, created Roll-out Plans, tracked the Project Milestones, prepared the reports and chaired the Release calls and worked for a successful Release of **JIRA** Application. Used **JIRA** to track issues and Change Management.
* Worked on **Tomcat**, **JBOSS**, and **Web Logic** and **Web-Sphere** Application servers for deployments.
* User, Group creation, monitoring and maintaining a log for system status/health using Linux commands and **Nagios** system monitor. Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Understanding of developing and testing enterprise products, with a current focus on cloud-based application and giving a solution to challenges imposed by multi-data center deployed **SaaS** products and their needs for DevOps tools and automation.

**Environment**: Agile, AWS, SVN, GIT, Jenkins, Maven, Chef, Web Logic, TOMCAT, Python Scripts, Perl Scripts, Ruby Scripts, XML, UNIX, JIRA, Web Sphere, Nagios.

**BUILD AND RELEASE ENGINEER Oct 12 to Aug 13**

**CtrlS**

**Hyderabad, India**

**Responsibilities:**

* As a Build and Release Engineer handled different development teams and a number of simultaneous s/w releases.
* Configured and maintained **Apache** web server from open source with **Java** and **Tomcat.**
* As a member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on **LINUX** platform
* Installed and configured **Jenkins** for Automating Deployments and providing an automation solution
* Integrated **GIT** into **Jenkins** to automate the code check-out process and used **Jenkins** for automating Builds and Automating Deployments
* Automating the regular tasks in Subversion and streamlining the process of access to **SVN**. Migrated Projects from **SVN** to **GIT.** Used both **GIT** and **Bit**-**bucket** source control systems to manage code.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments
* Responsible to perform Build operations with **ANT** Scripts, while implementing the required modifications in the **ANT** Script to perform build operations, in accordance with requirements.
* Integration of **Puppet** with **Apache** and developed load testing and monitoring suites in **Python.**
* Dealt with **JIRA** as ticket tracking and workflow tool.
* Designed the Release Plans while coordinating with Stake Holders including Project Management Lead, Development Lead, and QA Team Lead
* Experience working with **Puppet** Enterprise and **Puppet** Open Source. Installed, configured, upgraded and managed **Puppet**master, agents & Databases

**Environment**: SVN, GIT, Ant, Jenkins, Linux, Maven, Java, Puppet, Python, Docker, Shell Scripting, Windows, XML, Test Manager, Tomcat.

**LINUX ADMINISTRATOR April 11 to Sept 12**

**Knoah Solutions Pvt Ltd**

**Hyderabad, India**

**Responsibilities:**

* Installed, Configured, Upgraded and administered **CentOS** and Ubuntu on remote and desktop servers.
* Created and modified users and groups using **SUDO** permissions.
* Jumpstart & Kick-start OS integration, DDNS, DHCP, SMTP, Samba, NFS, FTP, SSH, LDAP integration.
* Creation and administration of virtual machines using **VMware** and **Virtual Box**.
* Configured and connected to **SSH** through **SSH** clients like **Putty**.
* Provided policies to groups using policy generator and set different permissions based on requirement.
* Used LVM on **Linux** to create volumes with layouts like **RAID**.
* Administrating responsibilities which include user, group, and disk and security management and file sharing permissions, also Fine-tuned Servers and configured networks for optimum performance.
* Performed Linux System Admin routines, a swap partition, and file system changes, system booting and recovery.
* Production support of **Apache**, **PHP**, **MYSQL** installation, configuration, management, and troubleshooting.
* Experienced in working with IT security team to handle the responsibility of firewall administration.

**Environment**: Redhat 5/6, VMware Workstation, Virtual Box, CentOS 6/6.5, VMware vSphere 4.0, VMware ESX 3.5.0.

**Application Developer Jan 10 to Mar 11**

**Next Link (P) Ltd**

**Hyderabad, India**

**Responsibilities:**

* Involved in Design, Development, Testing, and Integration of the application
* Implemented business logic and database connectivity Also Client-side installation and configuration of project.
* Developed using simple **Struts** Validation for validation of user input as per the business logic and initial data loading.
* Writing database queries on **Oracle** 9i and Co-coordinated Application testing with the help of the testing team.
* Writing stored procedures, Packages, Views, Cursors, Functions, and triggers using **SQL** on the back end.
* Worked with business teams using the **agile** to integrate business line of apps with SOA in a seamless fashion.
* Used Hibernate for **Object Relational Mapping (ORM)** and data persistence.
* Wrote **SQL** commands and Stored Procedures to retrieve data from **Oracle** database.
* Developed **REST** APIs using Web API and developed web services using Restful web services, **WSDL**, and **XML**.
* Developed the app using Singleton, Business Delegate, and Data Transfer Object design patterns in the project.
* Created and implemented Oracle Stored Procedures, Functions, Triggers and complex queries using **SQL**.
* Worked with **Java Messaging Services (JMS)** for reliable and Asynchronous Communication.
* Used **log4j** for logging and **SVN** for version control.
* Ability to quickly adjust priorities and take on projects with limited specifications. Effective team player with excellent logical and analytical abilities.

**Environment**: Java, JSP, Struts 1.3.8, Spring 1.0.2, Restful Web services, SOA, JavaScript, CSS, XML, JAXB XHTML, XSLT, JMS, Ajax, Hibernate 2.1, EJB 2.0, 2.1, Log4j, Oracle 10g, Web Sphere 6.1, Ant, Eclipse, UNIX.

**EDUCATION**

Masters of Science in Computer Science

State University of New York at New Paltz.