Prabal Deb

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Current Location: Bangalore   Email: prbldeb@gmail.com
Personal Site: https://prabdeb.github.io
GitHub: https://github.com/prabdeb
(Contributor of @cisco-cx, @helm, @drone, @drone-plugins, @grafana, @spinnaker)
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Technical Details:

Programming Languages	:	Go, Python, Groovy, Perl, Shell Script, YAML, PHP
Cloud Engineering	:	Docker, Kubernetes, Helm, AWS, OpenStack
CI /CD Tools	:	Drone, Spinnaker, Jenkins, Travis CI
Version Control Tools	:	GIT, Bitbucket/GitHub/Gerrit, SVN
Infrastructure Automation	:	Ansible, Puppet, Terraform
Monitoring Tools	:	Prometheus, Grafana
DevOps Other Tools	:	External-dns, Nginx, ELK, Consul, Stolon, Vitess
Quality Check Tools	:	Sonar, Findbugs, Burp, Coverity, CppCheck
Security Scan	:	BOM Scan, Docker (Anchore, Dagda), GIT-Secret (truffleHog)
Build Tools	:	Gradle, Maven, Make
Project Management Tools	:	Rally, Jira, TeamForge
Industries	:	Cyber Security, Networking, Telecom, Banking & Financial

Explaining me in few lines:

Automation is my primary mantra. I have transformed myself through Waterfall -> Agile -> DevOps -> Bot-driven culture. I feel excited about something that is almost impossible. I love to try/learn/unlearn new things daily, in parallel I do realize importance of business operation that I get paid for.

Educational Details:

M.Sc. in Physics from IIT Madras, Chennai with CGPA 8.45 2005-2007.

B.Sc. in Physics from Midnapore College, West Bengal with percentage 71.5% 2002-2005.

Experience Details – (Aug 2007 – Till date) Total 11years+:

Cisco Systems (India) Pvt. Ltd.: Software Automation Engineer IV (March 2015 – Till date) dedicated to Several Automation Activities, mainly DevOps for Cloud Infrastructure, Cloud

Prabal Deb

enabled CI/CD & Architecture & Solution Implementation, Code Quality Assurance, Research, etc. for 100+ projects.

Ericsson India Global Services Pvt. Ltd. (R&D): Specialist SCM (Software Configuration Management) (Aug 2010 – February 2015) dedicated to Software Configuration Management, Design Environment Maintenance and Software Packaging in Telecom domain.

Accenture Services Pvt. Ltd.: Software Engineer (Aug 2007 – July 2010) dedicated to Software Configuration Management (Application Software Control) and Midrange applications in Banking & Financial Domain.

Engagement Overview:

Employer	:	**Cisco Systems (India) Pvt. Ltd.**
Project	:	**CX (Customer Experience) Product Development.**
Duration	:	**March 2015 – Till date**

Roles and Responsibilities:

- **Managing Cisco Could Email Security infrastructure** (250+ core servers)
- **Lead & Architect of CI/CD implementation for cloud native & legacy offers** (150+ Microservices, 20+ Legacy Offers)
- **Ownership of Tools chain for CI/CD implementation** (Drone, Jenkins, Spinnaker, Bitbucket/GitHub, Sonar, Artifactory, Docker Registry, Helm Chart repo, etc.)
- **Ownership of Quality/Productivity enhancement via Best Practices/Automation**
- **Ownership of Next-gen experience with CI/CD** (Bot driven, data insights, etc.)
- **Ownership of creating common reusable patterns w/ CI/CD**
- **Collaborator & Co-Owner of Deployment & Versioning implementations**
- **Collaborator w/ Site Reliability Engineering (SRE) for Kubernetes Cloud Stack**
- **Member of Open Source GitHub Org (cisco-sso) for current BU**

Key Achievements:

- Migrating legacy manually managed infrastructure to Ansible + Terraform (100+ servers)
- Automated Continuous Security Scan, for Docker Image, 3rd Party registration, GIT Secrets, etc.

Prabal Deb

- Architected and developed CI/CD Insights Dashboard using Go and JS and hosted in K8's (Micro-service architecture with data caching and REST enablement)
- Enabled scalable/proper utilization of resources of Drone K8's stack using Prometheus + Grafana
- Developed/Guided team to develop several Docker + Golang based Drone Plugins to make next-gen CI/CD reality – drone-spark, drone-sonar, drone-fabric8 intelligent deploy-test-rollback, etc.
- Architected the whole CI/CD process/plugins/docker images using Drone, got adopted for 150+ production enabled microservices
- Open Source development (Golang) for missing Drone Bitbucket (Stash) features, like advance WebHook integration, Pull-Request support, etc. – highlighted as major feature in Drone 0.9
- Created Ansible driven fully automated global secret management with Drone (missing feature in opensource version)
- Drone setup with GitHub(POC) and Bitbucket Sever (Stash) in K8's and contributed to Drone Open Source Helm chart, was referred in one Medium article by Lorenzo Soligo
- Open Source contribution to several inhouse project under @cisco-sso, as well as outside projects like Grafana custom dashboard, etc.
- Spinnaker setup using Halyard in K8's and implemented futuristic CD pipeline for couple of live microservices for Deploy, Test & Promote, with auto approve and Canary traffic routing as POC and presented to Senior Directors
- Templatized the whole Jenkins Pipeline Library setup & Puppet driven infrastructure to enable self-onboarding, that got adopted for 100+ microservices
- Enabled auto creation of Jenkins CI pipelines using Jenkins Multi-job, Bitbucket WebHook for different branches/pull-requests
- Architected & developed reusable Jenkins Pipeline Library, that supports E2E CI/CD for Maven, Gradle, NodeJS, Python, Sonar Analysis, Docker Build, AWS ECR Push, K8's deployment, CDN Publish etc.
- Created Jenkins Upstream/Downstream pipelines for 5+ legacy offers to make production deployment (reduced CR window ~6hours and removed human errors)
- Implementation of Perl based intelligent log parser to decide on success/failure from Oracle DB upgrade, Tomcat start logs etc.

Prabal Deb

Engagement Overview:

Employer	:	**Ericsson India Global Services Pvt. Ltd. (R&D).**
Organization	:	**Charging Systems, Customer Care & Analytical Suit**
Duration	:	**August 2010 – February 2015**

Roles and Responsibilities:

- **Streamline code build & packaging** (Using Maven, Ant, Jenkins, RPM, PKG, etc.).
- **Code repositories (Maintenance) in ClearCase**
- **Code repositories (R&D) in GIT**
- **Continuous Integration Frameworks** (Jenkins Nightly CI: OS Install, Product Build, Install/Upgrade, Regression Test, Status Mailer, etc.).
- **Code Review Setups** (Gerrit, Compilation & Unit test for affected components in each change set, Bugspots analysis, PMD; CheckStyle; Findbugs; ShellCheck analysis for each line modified etc.)
- **Code Quality Enhancement** (Sonar, Coeverity, Cobertura - Code Coverage, BugTree - Bug relationship tree using cached history in GIT, Quality Dashboard on TV, etc.)
- **Continuous Deployment** (Collabnet Teamforge, Nexus, Automatic Deployment of each releases RPM's into access controlled YUM repo created using Teamforge Perl SDK)
- **Common Design Environment**
- **3PP Management** (Building, maintain, deploy of all Build time & Runtime 3PP's)

Key Achievements:

- Reduced build time from 5-6 hours to 1.5 hour by parallelization of build (Ericsson Kaizen 2011 1st Prize among 87 Entries across India).
- Extending Jenkins using Groovy System Console and Jenkins CLI.
- Migrating legacy codes from ClearCase to GIT with zero Fault Slip Through.
- Nightly CI end-to-end setup, scalable and reused across all the components in Chennai (Ericsson Kaizen 2013 2nd Prize).
- Framework to check and disallow to check-in if Unit Test Failure, Code Coverage is below 80%, Static analysis priority 1 violations (PMD, Findbugs, etc) only for lines modified in each change sets.
- Bugtree – Web based bug family tree and statistical analysis of source of bugs using cached history in GIT.

Prabal Deb

- Code Quality Dashboard on TV by fetching data from Jenkins using Groovy.
- Gerrit Code Review Statistic tool, Web based.

Employer/Client	**:**	**Accenture Services Pvt. Ltd.**
Project	**:**	**Bank of America – Software Configuration Management.**
Duration	**:**	**December 2007 – August 2010**

Roles and Responsibilities:
- Perform code build (ANT Build, Using RAD).
- Perform Deploy (UNIX Environment Manual Deploy and BladeLogic Deployment)
- Manage code repositories in ClearCase (delivering activities, baseline, branching, labeling, merging etc.).
- Coordinate build and deploy activities.
- Maintain and automate build and deploy scripts (ANT Script, BATCH Scripting)

Key Achievements:
- Automating build and Deploy Setups.
- Excellent On-Shore coordination.

Certification and Training:
- ITIL V3 Foundation Examination Certified by EXIN.
- AIX Basic Operation V5 Certified.
- Other online trainings in Udemy as well as classroom training

Extra-Curricular Details:
- Achieved Ace/Power awards several times in Ericsson.
- Two times Kaizen winners in Ericsson.
- Performed in Musical bands in Ericsson All Employee meets.
- Achieved Star of fortnight award at Accenture 2 times.
- Completed sketching and Painting courses.
- Participated in Sketching competition in IIT-Madras and won prize.