

# Prabal Deb

Date of Birth: August 20, 1985

Current Location: Bangalore

Personal Site: <https://prabdeb.github.io>

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

(Contributor of @cisco-sso, @helm, @drone, @grafana, @spinnaker)

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## **Technical Details:**

<b>Programming Languages</b>	:	Go, Python, Groovy, Perl, Shell Script, YAML, PHP
<b>Cloud Engineering</b>	:	Docker, Kubernetes, Helm, AWS, OpenStack
<b>CI /CD Tools</b>	:	Drone, Spinnaker, Jenkins, Travis CI
<b>Version Control Tools</b>	:	GIT, Bitbucket/GitHub/Gerrit, SVN
<b>Infrastructure Automation</b>	:	Puppet, Ansible, Terraform
<b>Monitoring Tools</b>	:	Prometheus, Grafana
<b>DevOps Other Tools</b>	:	External-dns, Cert-Manager, ES, Consul, Stolon, Vitess
<b>Quality Check Tools</b>	:	Sonar, Findbugs, Burp, Coverity, CppCheck
<b>Build Tools</b>	:	Gradle, Maven, Make
<b>Project Management Tools</b>	:	Rally, Jira, TeamForge
<b>Industries</b>	:	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 III (March 2015 – Till date) dedicated to Several Automation Activities, mainly Cloud enabled CI/CD & DevOps Architecture & Solution Implementation, Code Quality Assurance, Research, etc. for 100+ projects.

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**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:**

- **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:**

- 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

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- 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 drive fully automated 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
- 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.

### 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.).

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- **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 1<sup>st</sup> 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 2<sup>nd</sup> 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.
- Converting Teamforge File/Release section to access controlled YUM repository and auto releases of product RPM's into it.
- Code Quality Dashboard on TV by fetching data from Jenkins using Groovy.

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- 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.