Date of Birth: August 20, 1985 Mobile No: +91 8754402756

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

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*(Contributor of @cisco-sso, @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 :** Puppet, Ansible, Terraform

**Monitoring Tools :** Prometheus, Grafana

**DevOps Other Tools :** External-dns, Cert-Manager, 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 :** 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.

**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:**

* Automated Continuous Security Scan, for Docker Image, 3rd Party registration, GIT Secrets, etc.
* 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](https://medium.com/@lorenzo.soligo/setting-up-a-ci-cd-pipeline-with-drone-on-a-kubernetes-cluster-fc6779798430) 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.

**­­­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.
* 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.
* 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.