

# Sagar Mangulkar

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## Technical Skills

- **Languages:** [Java](#), Python, Bash Script, Shell Script; [Intermediate:] [C](#), C++, JavaScript, [Objective-C](#), [Swift](#), PHP, [Golang](#), [Haskell](#), [Erlang](#).
- **Database:** [SQL/PLSQL](#): MySQL using Sequel Pro, Oracle, MS SQL Server; **NoSQL**: Redis, DynamoDB.
- **Tools:** Jenkins, Vim, Maven, Ant, IntelliJIdea, Spring Boot, XCode, Git, Informatica, SSIS, SAP-BO, Splunk, Elasticsearch.
- **AWS:** CodeDeploy, S3, RDS, EC2, ASG, CloudWatch, Load Balancers, Lambda, AMIs, WAF & Shield, Route 53, CloudFormation, IAM.
- **Concepts:** OOPS, RESTful API, Multithreading, Streams, RPC, Functional Programming, SaaS, SOAP, ETL, BI, Data Warehousing, DNS.
- **Framework:** J2EE Spring MVC, Hibernate, ODBC, JDBC, JMS, Mockito, JUnit, JSP, Apache Tomcat Servlet, Swing, Thrift, Protobuf, IaC.

## Experience - 10 years

### Senior Software Engineer - Build and Release

[Securly, Inc.](#) (United States) | Jan 2019 – Present

(promoted from **Build & Release Engineer** on Nov 2019)

- Built release pipeline using Jenkins, Docker and CloudFormation. Created Docker images and pushed it to Amazon Elastic Container Registry.
- Create AMI artifacts. Update it in ASGs using Launch Template by maintaining versions and deploy on Prod ASG's EC2 using CodeDeploy.
- Perform regular releases as a new feature or bugfixes in Production and BETA regularly. Owns complete release process of company.
- Create & maintain Jenkins jobs, AWS EC2, ASGs, Load Balancers (ALB & NLB), CodeDeploy jobs, Hooks, S3. Maintain Prod, BETA, QA clusters.
- Migrated GitHub from GitHub Enterprise Server to GitHub Enterprise Cloud. Also, expert in GitHub branching, tags, merging, PATs, secrets.
- Created JIRA workflow automation in Python for changing JIRA status and sending release updates using Jira API and Slack API (SlackClient).
- Developed Redis backup system in Java to keep large Redis data backed up in AWS S3 Glacier regularly by hitting AWS APIs.
- Created and maintaining Sprint pipeline parallel programming. Big architectural change for company's SDLC to move towards CI/CD.
- Developed webapp in Java & MySQL using Spring Boot & Hibernate to maintain GitHub tags of Prod and Beta for easy reference and rollbacks.
- Wrote Bash Scripts to perform various Git operations like Cherry-picking, merging, git validations. Developed Python Slack libraries.
- Administrative roles - GitHub Owner and Admin, Jira/Confluence Site Admin, Slack Admin. Single GitHub administrative person in Company.
- Decided Git branching model for whole company. Gatekeeper of Production code. Planning and deciding release strategies and code freeze.
- Vigilant for PROD issues. Having decision making power for fixing PROD issues by heavy rollbacks operations with minimum response time.

### Java Developer

[Iris Software, Inc.](#) (United States) | Oct 2018 – Dec 2018

- Developed backend system in Java, Oracle and EAP 2.0 to contribute in implementation of CECL (Current Expected Credit Loss) regulations.
- Built REST API using J2EE Spring MVC framework to route client's report generation requests to the centralized report generation tool.
- Used JMS (Java Messaging Service) to communicate with another application. Interacted with database tables through Hibernate.

### Software Development Engineer Intern

[Amazon](#) (United States) | May 2017 – Aug 2017

- Developed internal automation system in Java & DynamoDB to assign XML configurations & retrieve data dynamically. Agile Development.
- Developed REST API call services (CRUD) using J2EE Spring MVC framework on web scalable EC2 AWS cloud computing platform.
- Designed transactional locking mechanism in DynamoDB for Concurrency control in multithreaded distributed architecture.
- Wrote Unit tests using JUnit & Mockito frameworks and perform Integration testing in CI & CD environment using Jenkins. two-week Scrum.

### Senior Software Engineer

[Infosys](#) (India) | Sep 2013 – Jul 2016

- Developed distributed web application for Medical Representative in Java Spring with concurrency control for low latency requirement.
- Built REST API call services. Used Spring MVC, JSP & Hibernate. Achieved loosely coupled architecture using Spring Dependency Injection.
- Designed and developed complete database (92 procedures and 42 normalized tables) & its schemas individually in Oracle 11g from scratch.
- Worked on ET, Informatica, SSIS, query optimization, Data-Warehousing, SAP-BusinessObjects reporting with Oracle & MS-SQL Server.

### Software Developer

[IMK Infosoft](#) (India) | Jul 2012 – Feb 2013

- Built new functionalities in web application of government certification registration. Worked in Java, JavaScript, PHP, CSS3, HTML.

## Education

<b>Master of Science (MS) in Computer Science:</b>	State University of New York at Binghamton - SUNY	<b>May 2018</b>
<b>Post Grad Diploma (PGD) in Advanced Computing:</b>	Centre for Development of Advanced Computing (CDAC), IACSD Pune	<b>Aug 2013</b>
<b>Bachelor of Engineering (BE):</b>	Marathwada Institute of Technology, Aurangabad	<b>May 2012</b>

### Coursework:

<a href="#">Distributed Systems</a>	<a href="#">Database Systems</a>	<a href="#">Information Retrieval</a>	<a href="#">Design Algorithm &amp; Data Structures Analysis</a>
Data Mining (ML)	C & C++ Programming	<a href="#">Web Programming</a>	<a href="#">Game Development in Mobile Computing (IOS)</a>
Operating Systems	Programming Languages	Microsoft .Net	Computer Architecture & Organization
Mobile Computing	Core & Enterprise JAVA- OOPS	Embedded Systems	Microprocessors & Microcontrollers

## Projects

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**Movie Review Analyzer:** Java, Oracle 11g

[GitHub](#) | [Binghamton University](#) | [Information Retrieval](#)

- Developed basic Elasticsearch/Lucene engine using Java & Oracle11g for searching required movie review with analyzing movie rating.
- Backend data structure includes term dictionary with its frequency, document-list, posting-files. Used stemming & offsets for accuracy.

**Bank Transaction System:** Java, Protobuf

[GitHub](#) | [Binghamton University](#) | [Distributed Systems](#)

- Developed Distributed System in Java & Protobuf RPC using single TCP/IP connection with low latency and high Concurrency.
- Implemented Chandy-Lamport snapshot algorithm (asynchronous) to record consistent global states of transactions & balance.

**Student Registration System:** Java, Oracle 12c

[GitHub](#) | [Binghamton University](#) | [Database](#)

- Developed project which manages course registration & class schedule by validating credits, prerequisite courses & class limit.
- Implemented efficient Stored Procedures, Triggers, complex SQL queries with Joins & Subqueries. Used JDBC for connectivity.

**Competency Evaluation System:** Java, JavaScript, PHP, Ajax, jQuery, Oracle11g

[GitHub](#) | [CDAC](#) | [Web Application](#)

- Developed online exam system to check employee performance. Mapped Java Beans to Oracle11g database by Hibernate.
- Build Admin, Expert & Employee modules with different access levels. Technology Stack: Servlets, JSP, JavaScript, PHP, Ajax, jQuery, CSS3.

**iOS Mobile Games:** Objective-C, Swift

[Binghamton University](#) | [Mobile Computing](#)

- Developed seven iOS mobile games in Objective-C and Swift in XCode. Worked on View Controllers, UIKit, AVFoundation, iOS Timers.
- Strong hold on core frameworks like Core Graphics, Core Animation, UIKit. Also processed images & GIF for better experience.
- Developed applications with Adaptive User Interface using Auto Layout Constraints to support multiple screen sizes.
- Games Developed: [Doodle Jump](#), [Batman Run](#), [Chicken Invader](#), [Car Lane Splitter](#), [Fun Adventure](#), 2048. More on [github.com/sagarmangulkar](https://github.com/sagarmangulkar)