

# Devraj Singh



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## PROGRAMMING SKILLS

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**Languages and Frameworks:** Java, Golang, Javascript, HTML, ReactJS

**Technologies:** AWS, Docker, gRPC, Protobuf, Maven, Git

**Databases:** PostgresDB, MongoDB, CassandraDB, InfluxDB, Redis

**Skills and Knowledge :** Data Structures and Algorithms, Problem-solving, Concurrency, System Design(HLD and LLD), Design Patterns, Rest API, Distributed Systems, Good coding practices.

## PROFESSIONAL EXPERIENCE

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- **Cohesity** Bengaluru, India  
*Member of Technical Staff* *Jan 2018 - May 2021*
  - **Self-service portal:** Worked on the REST API design and development using **Golang, MongoDB and InfluxDB** for a self-service portal to dynamically provision resources like VM, volumes, etc.
  - **Cluster Installer Tool enhancement and optimization:** Worked on the enhancement and optimization by reducing the running time by 70% and failure rate by more than 50% of existing cluster installer tool.
  - **Automation framework development:** Wrote an automation framework from scratch using Golang and Ginkgo framework which would tests entire end-to-end functionalities of products. Also integrated this Automation Framework with CI/CD with Jenkins and Gerrit pipeline which reduced the duration of testing and release cycle of the products.
- **InMobi** Bengaluru, India  
*Lead Software Engineer* *Oct 2016 - Jan 2018*
  - **Rest API development:** Worked one design and development of REST API and Apache Thrift RPC API using **Java, Apache Thrift, PostgresDB and Redis** for various microservices
  - **Field issues:** Look and debug into the field issues, and reply back to the customer and campaign manager.
- **InMobi** Bengaluru, India  
*Senior Software Engineer* *Jan 2015 - September 2016*
  - **In-house tools development:** Wrote 2 in-house tools, AdResponse Generator and AdTemplate Ingestion Tool. Both were used for ad-template testing and ad-template ingestion in the database. These tools greatly reduced the testing, development, verification, and release cycle of ad-template and minimized the chances of human error while doing template ingestion into the database. Both tools were used throughout the company by product managers and QA for mock ad response generation and testing.
  - **Microservices docker containerization:** Worked in moving existing microservice to Docker based microservices.
- **InMobi** Bengaluru, India  
*Software Engineer* *July 2012 - December 2014*
  - **App Analytics:** Joined InMobi App analytics team as a new college graduate and worked on the implementation of small features and bug fixes in some existing CRUD Rest API and Thrift based API.**Java, Cassandra, Redis.**
  - **Automation framework for the Rest API:** Wrote an automation framework using Java and TestNG for all microservices and integrated it with CI/CD(Jenkins, Github pipeline) pipeline.

## PROJECTS

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- **RDBMS Implementation:** Created a fully implemented RDBMS(like a clone of MySQL database). It has almost all features of a relational database except scalability. Github link: <https://github.com/devgit072/tiny-db>.

## EDUCATION

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- **Dalhousie University** Halifax, Canada  
*Master of Applied Computer Science; GPA: 4.0/4.3* *2021 - 2022*
- **VIT University** Vellore, India  
*Bachelor of Technology in Information Technology; GPA: 3.42 (8.8/10.0)* *2008 - 2012*