

# ANANTA KATARE

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## Skills

- C++ | Java | CAA | MVC | JavaScript | Visual Studio | SCM Tool | PLM | Simulation | FEA | Process Composer | 3DEXPERIENCE platform
- Kotlin | Dart | Flutter | Firebase Auth, Firestore, Storage | Android Studio | Unit, UI, Integration Tests | e2e Android App development
- Data Structures & Algorithms | Microservices | System Design | Rest API | Git | JIRA | Jenkins | SEO | *English | Hindi | Marathi*

## Experience

### Software Engineering Manager

### Dassault Systems (R&D)

Pune (June 2012 - Current)

- Design and development of Process Composer application suit in Simulation domain of 3DEXPERIENCE platform used for process automation and design optimization driving \$50M revenue every year using C++, CAA, Java, Javascript, Enovia database technologies
- Improved loading, traversing and rendering performance up to 2 times for graphical representations using Topological Sort, MVC pattern
- Designed and implemented efficient and scalable Text Parsing techniques for reading and replacing text in file while in solve of simulation
- Designed and implemented Annotations feature which adds graphical notes on another graphical representation object in UI
- Continuous Integration/Deployment Pipeline Integration, code reviews, load/stress testing, unit/integration/e2e testing, Jenkin pipelines
- Experience in hiring and building team, organize employee orientation and schedule training, hired number of qualified personnels
- Represented Dassault Systems as hiring panel member on campus placements for NIT Jaipur, PCCOE Pune

### Awards & Recognitions

- Awarded the **Tech Genius** award for performance improvement **up to 2X** for graphical representation rendering (July 2021)  
Graphical Representations | MVC | C++ | CAA | Departmental Awards MODSIM Technologies 2021
- Awarded the **Tech Genius** award for solving critical issues with **graph traversing** algorithm of the Process layout (July 2020)  
DAG | Topological Sort | C++ | CAA | Departmental Awards SIMULIA 2020
- Awarded **Evangelist** award for **integrating EKL** script with Process Composer in collaboration with CATIA team (Feb 2019)  
3DEXPERIENCE integration | EKL | CATIA | Departmental Awards SIMULIA 2019
- Awarded the **Tech Genius** award for implementing various **Text Parsing** features in Process Composer app (July 2017)  
Meta Data | Client Memory Model | C++ | Java | CAA | Departmental Awards SIMULIA 2017
- Awarded the **Tech Genius** award for implementing **Graphical Annotations** feature in Process Composer app (July 2015)  
MVC | Graphical Representations | C++ | CAA | Departmental Awards SIMULIA 2015
- Achieved recognition for **Delivery Excellence** for fixing critical issues for various customers (Nov 2014)  
Departmental Awards SIMULIA 2014
- Recognized as **Best New Comer** for fast learning and adaptation to tools and delivering critical features on time (June 2013)  
Departmental Awards SIMULIA 2013

## Projects

- **Maha Swadyay** (April 2020)
  - Designed and implemented a scalable and easy to use Android app for needy students during covid lockdown | available for free
  - Over **1.3 Million downloads** | Over **~60000 Daily Active Users** (peak) | 4.1 rating by over ~11500 users on Play Store
  - SEO | **Ranked first** for targeted keyword on Play Store search
  - Notable Features: Read Aloud text on screen | Flash Card | Personalized Quiz | Dark Mode | Progress Tracking
  - Kotlin | Flutter | Firebase | MathML | Android Studio | Firebase Firestore, Storage, Crashlytics, Cloud Messaging | JUnit Framework

## Education

### Bachelor of Technology

### Walchand College Of Engineering Sangli

CPI 6.9 (June 2008 - May 2012)

- B. Tech in Computer Science & Engineering

## Intrests

- **Courses and Certificates** : C++ Essential Training (July 2019) | Android Development Essential Training App Architecture with Kotlin (July 2019) | Succeeding in Web Development: Full Stack and Front End (Jan 2020) | React: Building Progressive Web Apps (PWAs) (Aug 2020) | Flutter: Building UIs (Dec 2020)
- **Weight lifting**: Clean and Jerk (PR 40lbs) | Snatch (PR 20lbs)