

# ANANTA KATARE

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## Skills

- C++ | Java | CAA | MVC | JavaScript | Visual Studio | SCM Tool | PLM | Simulation | Process Composer | Isight | FEA, CFD analysis
- 3DEXPERIENCE customization & integration | EKL | Custom Widgets | JPO | TCL | MQL | Web Services | 3DDashboard | xPDM | xCAD
- Kotlin | Dart | Flutter | Firebase Auth, Firestore, Storage | Android Studio | Unit, UI, Integration Tests | e2e Android App development
- Data Structures & Algorithms | SOA | Microservices | Rest API | System Design | Git | JIRA | Jenkins | SEO | English | Hindi | Marathi

## Experience

### Software Engineering Manager

### Dassault Systems (R&D)

Pune (June 2012 - Current)

- Designed and developed Process Composer native application in Simulation domain of 3DEXPERIENCE platform used for process automation and design optimization using **C++**, **CAA** (front end), **Java** (back end), contributing to growth from pre revenue to ~ €20M
- Proactively delivered enhancements & POCs in Process layout & graphics, **custom adaptor**, **EKL** integration, VB automation, text parsing
- Improved loading, traversing and rendering performance **up to 2X** for graphical representations using Topological Sort, MVC pattern
- Designed and implemented **EKL adaptor** integrating Process Composer with 3DEXPERIENCE platform creating another revenue stream
- Designed and implemented Annotations feature which adds graphical notes on another graphical representation object in UI
- CI/CD Pipeline Integration, debugging, code reviews, load/stress testing, unit/integration/end to end testing, Jenkin pipelines
- 3DEXPERIENCE platform **customization OnCloud** using EKL(Native+Web), Custom Widget/Web Services (3DDashboard)
- 3DEXPERIENCE platform **customization OnPremise** using JPO/Triggers, Widget/Web Services (3DDashboard), EKL, TCL/MQL scripts
- 3DEXPERIENCE platform **vertical integration** with xPDM, xCAD, File Convertors & Physics Simulation PoweredBy
- Conducted campus placements for Dassault Systems for NIT Jaipur, PCCOE Pune as hiring panel member
- Experienced in hiring and building up competent team, organize employee orientation, organizing training for new joiners

### 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 platform 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 developing VB Automation APIs for Process Composer (POC) (Nov 2014)  
VB API development | POC | 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

## Project

- **Maha Swadhyay** (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 & Certificates:** C++(2019) | Android(2019) | C++ Pointers(2020) | Flutter(2020) | Full Stack(2020) | React(2020)
- **Weight lifting:** Clean and Jerk (PR 40lbs) | Snatch (PR 20lbs)