

# Aditya S. Dhage

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## Education

University of Southern California, Los Angeles, CA

January 2023 – December 2024

Master of Science in Computer Science (MSCS)

### Relevant Courses:

Analysis of Algorithms, Database Systems, Web Technologies, Multimedia Systems Design, Information Retrieval and Web Search Engines, Introduction to Human-Computer Interaction

Savitribai Phule Pune University, Pune, MH, India

August 2014 – June 2018

Bachelor of Engineering in Computer Engineering (BE)

(First Class With Distinction)

### Relevant Courses:

Fundamentals of Programming Languages, Data Structures and Problem Solving, Operating Systems, Object Oriented Multi-core Programming, Computer Organization, Theory of Computation, Data Management Systems, Concurrent and Distributed Programming, Computer Networks, Software Engineering, Problem Solving with Gamification, Software Design Methodologies, High-Performance Computing, Cloud Computing

## Technical Skills

Java	JavaScript	Typescript	Linux Shell Scripting	Python
Node.js	Express.js	React.js	HTML, CSS	SCSS, Bootstrap
Java Spring Boot	Angular	MySQL	MongoDB	REST API
Docker	Kubernetes	Maven	Elastic-Search	JSON, XML
CICD	Jenkins	Groovy Scripts	AWS	Google Cloud
Git, GitHub	JIRA	Confluence		

## Experience

Hansen Technologies, Pune, MH, India

August 2018 – November 2022

Software Developer

(Total Experience - 4 Years and 4 Months)

### Summary:

Accomplished the design, development, integration, and optimization of cutting-edge OSS software solutions for leading telecom enterprises across four dynamic customer-facing projects with other expert software developers.

### Key Contributions:

- Spearheaded the development of reusable, innovative, efficient Java components, enhancing overall performance and scalability.
- Developed and tested React.js workflow UI micro-service, ensuring seamless user experiences.
- Designed and developed client-specific OSS provisioning solutions, aligning them with the latest Hansen product standards.
- Implemented a custom JSR89 to JSR264 BSS adapter library, facilitating seamless data integration between legacy and newer products for an upgrade project.
- Developed an HTTP Sink Kafka connector Java Spring Boot micro-service for integrating Hansen Products.
- Optimized automatic testing procedures with web reports, resulting in streamlined workflows and enhanced quality assurance.
- Implemented error and compensation handling mechanisms for intricate OSS provisioning workflows, strengthening system reliability.
- Designed and standardized communication protocols for OSS devices, leveraging Java micro-service architecture.
- Invented a custom release delivery strategy for multi-platform projects with CICD.
- Orchestrated CICD pipelines for two large-scale projects, utilizing AWS S3, EC2, and EKS environment involving Java and Node.js applications.
- Demonstrated proficiency in diagnosing, resolving, and testing critical production bugs, ensuring uninterrupted service delivery.
- Provided leadership and mentorship to junior team members, fostering innovation and knowledge transfer.
- Led initiatives to develop proofs-of-concept for client presentations, enhancing client engagement strategies for the Marketing team at Hansen.
- Coordinated high-priority live system testing windows with onsite teams, ensuring seamless project execution.

## Honors and Achievements:

- Multiple Hansen Employee of the Month awards for - Focus and commitment, Exceeding Expectations and Dedication.
- Assessment Coordinator for New Employee On-boarding (2021, 2022).
- Involved in the Entry Level Undergraduate Hiring Process (2022).
- Participant in Hansen Hackathons (2018, 2019).

## Notable Projects

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### Song-Pool : Interactive Music Curating Platform

March 2024 - Current

#### Technologies:

(Individual Efforts)

Typescript, React, Node.js, Express.js, Spotify Web APIs

#### Description:

- Developing an innovative web application leveraging the Spotify Web API to revolutionize the ambiance of cafes and similar establishments.
  - The platform facilitates collaborative music selection, enhancing customer engagement and satisfaction while enabling communal space (For Ex. - A café) owners to curate playlists tailored to their clientele's preferences in real time.
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### Task-It : Minimal Task Planner

January 2024

#### Technologies:

(Individual Efforts)

Typescript, React, HTML, SCSS, Bootstrap

#### Description:

- Task Planning platform with minimal snappy design and functionalities like - one click edit, drag to plan, multiple listings for today, tomorrow, this week and plan ahead
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### Video Library Search with Video Clip Query

December 2023

#### Technologies:

(Individual Efforts)

Python, Numpy, CV2, PyQt

#### Description:

- Engineered efficient video library preprocessing algorithm, including shot boundary detection, frame histogram calculation, and hashing techniques, resulting in streamlined data organization and retrieval.
  - Achieved lightning-fast clip identification within the library, delivering precise frame and timestamp matches in an impressive 200-300 milliseconds.
  - Developed an intuitive video player interface with comprehensive playback controls, seamlessly initiating playback from identified clips.
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### Color Histogram Based Object Detection

October 2023

#### Technologies:

(Individual Efforts)

Java, OpenCV

#### Description:

- Implemented a robust object boundary detection system utilizing color histogram matching with a remarkable 95% accuracy rate.
  - Capable of detecting multiple instances of single or diverse objects within images, adapting to size variations with precision bounding box delineation.
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### EBay Window-Shopping App

September 2023

#### Technologies:

(Individual Efforts)

Node.js, Angular, Swift, MongoDB Atlas, G-Cloud App Engine

#### Description:

- Developed full-stack development of a dynamic web application enabling seamless product browsing, incorporating advanced filtering options, wish-list functionality, and visually appealing product imagery.
- Orchestrated the integration of Angular web and Swift iOS front-end interfaces with a Node-powered RESTful back-end supported by MongoDB Atlas, ensuring cross-platform compatibility and responsive user experience.
- Leveraged Google App Engine deployment for scalable front and back-end operations, along with MongoDB Atlas for robust database management, facilitating the creation of a modern, cloud-native e-commerce platform.