Aditya S. Dhage

Contact & Links - ✉ aditya.s.dhage@gmail.com 📍 Los Angeles, CA in adisd ⬡ adi-sd 🔗 Website

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

Technical Skills

Programming	-	Java, JavaScript, Typescript, Node.js
Web Technologies	-	React.js, Angular, Java Spring, HTML, CSS, RESTful APIs
Scripting	-	Linux Shell, Python, Groovy
Databases	-	Oracle, MySQL, MongoDB
Cloud	-	AWS, Google Cloud Platform
DevOps	-	CICD, Docker, Kubernetes, Maven, Git, Jenkins, Elastic-Search

Experience

Hansen Technologies, Pune, MH, India
August 2018 – November 2022

Software Developer *(Total Experience - 4 Years and 4 Months)*

Summary:

Accomplished design, development, integration, and optimization of cutting-edge OSS software solutions for leading telecommunication enterprises. The projects involved software engineering with dynamic client-facing teams needing a demonstration of quick critical thinking, creative problem-solving, and excellent teamwork.

Key Contributions:

- Involved in developing reusable and efficient Java and JavaScript components, delivering timely, high-performing, and scalable solutions.
- Revamped an interactive workflow UI micro-service with React.js, ensuring seamless user experiences of the involved OSS workflows for the client.
- Designed and developed multiple client-specific OSS provisioning services, aligning with the latest company standards.
- Implemented a custom recursive JSR89 to JSR264 BSS translation library for seamless integration between legacy and newer products for an upgrade project.
- Developed an HTTP Sink Kafka connector implementing a Spring micro-service to work with an existing solution.
- Implemented error and compensation handling mechanisms for intricate OSS provisioning workflows, strengthening system reliability.
- Optimized automatic testing procedures with web reports, resulting in streamlined workflows and enhanced quality assurance.
- Created and standardized communication protocols for external OSS devices, leveraging Java micro-services architecture.
- Invented a custom release delivery strategy for multi-platform Java 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.
- Led initiatives to develop proofs-of-concepts for client presentations, enhancing client engagement strategies for the Marketing team at Hansen.
- Coordinated high-stakes live system testing windows with onsite teams, ensuring outstanding project execution.

Honors and Achievements:

- 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

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.

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

Video Library Search with Video Clip Query
December 2023

Technologies: *(Individual Efforts)*

Python, Numpy, CV2, PyQt

Description:

- Engineered efficient video library prepossessing 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.

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.

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.