Aditya S. Dhage

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Education

University of Southern California, Los Angeles, CA (*current*)　　　　　　　　**January 2023 – December 2024**
Master of Science in Computer Science (MSCS)

Savitribai Phule Pune University, Pune, MH, India　　　　　　　　**August 2014 – June 2018**
Bachelor of Engineering in Computer Engineering (BE)

Technical Skills

Programming	: Java, JavaScript, Typescript, Python
Web Technologies	: React, Angular, HTML5, CSS3, RESTful APIs
Platforms & DB	: Shell Scripting, Kubernetes, Docker, Maven, Git, MySQL, MongoDB

Experience

Hansen Technologies　　　　　　　　**August 2018 – November 2022**
Software Developer (Total Experience - 4 Years and 4 Months)　　　　　　　　*Pune, MH, India*

- Designed, Modified, and Developed various Java-based reusable components specialized in communicating with external OSS provisioning devices
- Studied and mastered configuration for "Hansen Provisioning 7" and standardized a multi-platform release process (Build, Patch, and Hot-fixes) for the first client of the product
- Streamlined the Continuous Integration Continuous Delivery (CICD) pipeline for two projects - Java Micro-services using Jenkins Groovy Scripted pipeline systems for AWS EKS and VMWare PKS platforms
- Successfully debugged, solved, and delivered fixes for multiple time-critical bugs in Production Environments
- Managed a small team project to implement POCs for a direct-to-client Sales Team Presentation and Supervised and Trained a team of 2 as my replacement in my most recent project

Notable Projects

Video Library Search with Video Clip Query | *Python, Numpy, CV2, PyQt*　　　　　　　　**December 2023**

- Prepossessing the video library (around 30 videos, 640x480res, 20-25min) - shot boundaries, frame histogram calculation, and hashing.
- Finding the clip video in the library returning the exact frame and timestamp match in 200-300 milliseconds
- Display the video player with video starting from the clip and has all the general player controls

Color Histogram Based Object Detection | *Java, OpenCV*　　　　　　　　**October 2023**

- Object boundary detection using color histogram matching for a already analysed object image with 93% accuracy and a narrow bounding box
- Can detect multiple different-sized instances of single or multiple objects from a given image based on color histogram matching

EBay Window-Shopping App - Full Stack Project | *Node.js, Angular, Swift, MongoDB, G-Cloud*　　　　　　　　**September 2023**
- A full-stack web application to browse products with filters, wish-lists, images, and related products
- Angular web app and swift iOS app front-end to a Node.js rest service back-end with MongoDB Atlas
- Google App engine deployment for both front and back-end and MongoDB Atlas for Database

Bulk Resume Shortlisting application | *Angular 8, Python Flask, HTML, CSS and Typescript*　　　　　　　　**December 2019**
- To find out the relevance of a resume based on a job profile from a bulk quantity of applications with 90% accuracy

External System Simulator | *Java, Restful APIs, Apache HTTP Server, XML*　　　　　　　　**Various**
- Handles requests for HTTP, SOAP, and REST protocol-based external systems
- Generates the failure scenario as required, including connection failures and request validations. Simulates devices like – LDAP, Nokia COM, Nokia ENUM, HP Service Activator, HSSHLR, and Hansen Order Manager 5.5
- Standardized application structure to be configurable with different end systems' request-responses and easy to built-deploy on remote onsite servers

Forensic framework for PaaS Cloud | *Java, Shell Scripts, Python, MongoDB, HTML & CSS*　　　　　　　　**May 2018**
- A distributed system designed to monitor PaaS cloud usage with an integrated agent in the provided platform
- Provides a solution for the issue - PaaS CSPs often cannot provide/collect proper evidence in case the incriminated platform gets destroyed after use
- Data Access - able to retrieve the collected through an access-controlled web portal

Honors and Achievements

- Salute success awards for Dedication, Exceeding expectations, Focus, and Commitment from Hansen Technologies
- Scored in the top 5% of the Computer Department in the bachelor's program
- Ranked in the top 1% of the High School Certification Exam in Maharashtra State