

Aditi Limkar

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Education

UNIVERSITY OF WISCONSIN, MILWAUKEE

MS, Computer Science.

Milwaukee, WI

Sep 2023 - May 2025

Coursework: Natural Language Processing, Cloud Computing, Algorithm Analysis and Design, Data Structures and Algorithms, Introduction To Cybersecurity, Machine Learning, DBMS, Introduction to AR/VR and Programming with Django

SAVITRIBAI PHULE PUNE UNIVERSITY

Computer Engineering

Pune, India

July 2017 - May 2021

Coursework: Natural Language Processing, Cloud Computing, Algorithm Analysis and Design, Introduction To Cybersecurity, and Machine Learning

Skills

Languages: Java, Python, C++, JavaScript

Databases: SQL/NoSQL (MySQL, MongoDB), Relational and NoSQL database design, ETL

SAP: ABAP, SAC Planning, HANA

Web Development: HTML, CSS, ReactJS, NodeJS, ExpressJS, Angular, Bootstrap

Other: Git, Linux, AWS, Microsoft Azure, Cybersecurity, GitHub, CI/CD Automation

Frameworks/Tools: Spring Boot, Docker, REST API, JSON, Redux, Context API

Development Practices: Agile, TDD, SDLC (Software Development Life Cycle), API,

Cloud Technologies: AWS (EC2, Lambda, S3), Microsoft Azure

Experience

CAPGEMINI TECHNOLOGY SERVICES

Sr Analyst / Software Engineer

Pune, India

Sep 2021 – July 2023

- Collaborated in an Agile team to deliver secure, scalable back-end solutions for enterprise applications.
- Designed and optimized database schemas (MySQL, MongoDB), improving performance by 40%.
- Refactored SAP systems using ABAP, SAC Planning, and HANA; ensured compliance with SDLC standards.
- Integrated cloud-native tools and JSON-based APIs for efficient communication between services.
- Led troubleshooting efforts for system failures, improving uptime by 35%.
- Participated in all phases of the software development life cycle, from requirement gathering to deployment.

CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING (CDAC)

Researcher/Developer

Pune, India

Aug 2020 – May 2021

- Developed full-stack flood monitoring application with REST APIs and JSON data handling.
- Designed responsive user interfaces using ReactJS, Angular, and Leaflet for real-time geospatial data.
- Built backend logic in NodeJS and ExpressJS to process and visualize river basin data dynamically.
- Deployed app on cloud servers and implemented cloud technologies for high availability.
- Collaborated in an Agile environment with continuous feedback cycles.

LITMUSBLOX, INDIA

Frontend Developer Intern

Pune, India

Jun 2020 – Oct 2020

- Refactored UI components in ReactJS, JavaScript, and TypeScript, improving performance by 15%.
- Implemented state management (Redux, Context API) and optimized API integrations, reducing response time by 25%.
- Collaborated closely with the backend and QA teams in an Agile environment to support the full software development life cycle.

PROJECTS

DEEP LEARNING PROJECT: COLORIZATION OF HISTORICAL BLACK-AND-WHITE PHOTOS Feb. 2025

Key Skills: Deep Learning (PyTorch, TensorFlow), Computer Vision (OpenCV, CNNs), Image Processing, Dataset Curation & Augmentation, Model Training & Optimization, Pandas, Matplotlib, Numpy

- Developed a deep learning model using PyTorch and TensorFlow to restore and colorize historical grayscale images with realistic color mapping.
- Trained a neural network on a dataset of historical photos, leveraging CNN-based architectures for accurate color prediction.
- Applied OpenCV and image processing techniques to enhance detail retention and improve final output quality.
- Optimized model performance by fine-tuning hyperparameters and using GPU acceleration, achieving a 30% reduction in training time.
- Addressed domain-specific challenges such as historical accuracy in color mapping and dataset curation to improve authenticity

SIEM INTEGRATION WITH ARTIFICIAL INTELLIGENCE

Mar. 2024

Key Skills :Microsoft Sentinel, Azure Logic Apps, OpenAI (ChatGPT), Log Analysis, SIEM (Security Information and Event Management), Automated Incident Response.

- Developed and implemented a Security Information and Event Management (SIEM) solution using Microsoft Sentinel as part of the Cybersecurity course project.
- Configured data connectors to gather security logs, network traffic, and software system data for real-time monitoring and analysis.
- Integrated a custom-designed Playbook with OpenAI (ChatGPT) for automated incident response and enhanced analytics.
- Deployed and tested Sentinel's core capabilities, including log analysis, watchlist creation, and diagnostic settings management, to improve threat detection and response.
- Designed and executed logic apps for automating workflows and responding to cybersecurity incidents efficiently.

AGILECART WITH CI/CD PIPELINE

Sept. 2023

Key Skills :AWS (Lambda, EC2, S3, CodePipeline, CodeBuild, CodeDeploy), Buildspec.yml, Appspec.yml, GitHub Webhooks, CI/CD Automation, version control

- Designed and implemented a robust CI/CD pipeline for a shopping application as part of a Cloud Computing course project.
- Leveraged AWS services, including CodePipeline, CodeBuild, CodeDeploy, S3, and EC2, to automate software delivery processes, enabling continuous integration and deployment.
- Developed and configured buildspec.yml and appspec.yml files to streamline the build and deployment lifecycle.
- Focused on automation to reduce manual intervention, improving the efficiency, reliability, and speed of delivering updates and new features.
- Implemented unit and integration testing as part of the CI/CD pipeline, ensuring code quality in every release.

PUBLICATIONS

A REVIEW OF MESH GENERATION IN ANUGA

International Conference on Sentimental Analysis and Deep Learning(ICSADL) - A Springer Conference

In this paper,

- Analyzed different methods of mesh generation used by ANUGA
- Compared multiple available mesh and discussed the importance of an optimal mesh
- Proposed a new method for mesh generation.