

Aniket Ladukar

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EDUCATION

University of Southern California

Master of Science in Computer Science | *CPGA - 3.57 / 4*

Jan 2023 – Dec 2024

Los Angeles, CA

Relevant Courses: Machine Learning, Analysis of Algorithms, Multimedia Systems Design, Database Systems

Thakur College of Engineering and Technology, University of Mumbai

Bachelor of Engineering in Information Technology | *CPGA - 9.1 / 10*

Aug 2016 – May 2020

Mumbai, India

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, C, SQL, HTML, CSS

Frameworks: ReactJs, Spring Boot, ExpressJs, NodeJs, AngularJs

Data Science / Machine Learning: scikit-learn, Tensorflow, NumPy, Pandas, Seaborn

Database Management: MySQL, MongoDB, PostgreSQL

DevOps and Tools: Docker, Kubernetes, Jenkins, Git, Github, Bitbucket, Jira, VS Code, Eclipse, \LaTeX

WORK EXPERIENCE

Information Sciences Institute, USC

Frontend Engineer - Student Worker

May 2023 – Present

Marina Del Rey, Los Angeles

- Incorporate support for array input fields to existing forms using react-beautiful-dnd, resulting in a remarkable 70% improvement in data ingestion efficiency by avoiding creation of redundant records with only a few different fields and values, accelerating new record creation.
- Migrate existing products GUDMAP and Rebuilding a Kidney into a unified product Atlas D2K, resulting in a 30% improvement in user experience and a 40% increase in codebase efficiency.

Infosys Ltd

Specialist Programmer [Full Stack Developer] - Strategic Technology Group

Nov 2020 – Dec 2022

Mumbai, India

- Designed and development a web-based **Kubernetes Controller** enabling seamless setting up of Kubernetes clusters and facilitating installation of an open-source cluster monitoring tool, resulting in a 60% reduction in roll-out period and refined accessibility for non-technical users.
- Developed and rolled out authentication and cluster backend services using microservice architecture to improve availability and scalability and ensure zero downtime.
- Augmented **Data Delivery Platform** with file support for CSV, XLSX, PDF, and Images, resulting in a 55% increase in parsing and previewing speed for larger files.
- Engineered a template based custom interactive form component using BlueprintJS with CRUD support, promoting code reusability and developer-friendly form rendering reducing development time for forms by roughly 90%
- Created workflows to containerize UI and backend microservices using `docker` and `docker-compose` to catalyze a reduction in build and deploy time by 80%.
- Streamlined client's product suite by creating a highly efficient **Single Sign On Service**, enabling seamless authentication and authorization, drastically reducing administrative overheads by 45% by simplifying user management and access control.
- Integrated products with the SSO, leading to a remarkable 70% reduction in user onboarding time along with license based product switching.

Bhaktivedanta Hospital and Research Institute

Summer Intern, Data Analytics

Jun 2018 – Jul 2018

Mumbai, India

- Revamped hospital's intranet, implementing a robust SQL Data Collection and Cleaning Pipeline saving 30 weekly man-hours in data management and streamlined day-to-day data storage.
- Utilized Tableau to process and visualize data, yielding actionable insights and reports for optimized processes, resulting in a 30% efficiency boost in decision making.

PROJECTS & PUBLICATIONS

Music Generation Using Deep Learning | Undergraduate Project | Python, Tensorflow

Aug 2019 - Mar 2020

- Studied various models for sequence generation such as LSTM, Transformers, AutoEncoders and looked into feasibility of models using GANs to generate coherent audio sequences resulting in a 10% improvement in sequence accuracy.
- Designed a hybrid model using AutoEncoder and GAN to improve long term and short term coherence of generated audio sequences along with 20% reduction in resources used and published findings in [IEEE ICCDW](#) in Feb 2020. ISBN:978-1-7281-4635-5.

Restaurant Website | Independent Project | ReactJS, NodeJS, MongoDB

Sept 2020

- Developed a restaurant website using MERN Stack. UI displayed profile of the Chefs, cuisines and dishes available at restaurant along with customer reviews and comments for each dish.
- ExpressJS REST API served details to frontend.

Sorting Visualizer | Independent Project | AngularJS

Aug 2020

- Built a browser based WebApp to visualize various commonly used Sorting Algorithms in order to better understand concepts of Algorithms and also learn AngularJS.

EXTRACURRICULAR

Intercollegiate Archery Team | University of Southern California | Olympic Recurve Men

Sept 2023 - Present

Association for Computing Machinery | Student Body | Tech Head

Aug 2018 - Mar 2019

Indian Society For Technical Education | Student Body | Creative Head

Aug 2017 - Mar 2018

Extension Work Team | Community Service | Volunteer

Aug 2017 - Mar 2018