Kritagya Kumra

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[Kritagya-web-GitHub |](https://github.com/Kritagya-web) [Kritagya-portfolio](https://effortless-pixie-d8d1a1.netlify.app/%23/) | [Kritagya-Kumra-LinkedIn](https://www.linkedin.com/in/kritagya-kumra-bba9b41b6/) | [Kritagya7777-Leetcode](https://leetcode.com/Kritagya7777/) | [Kritagya-Code studio](https://www.codingninjas.com/studio/profile/34a33414-da35-4b62-ab67-1507226c6539)

# Education

**Master of Science in Computer Science** Aug 2023 – (Expected Graduation) Aug 2025

**California State University Los Angeles**, California 3.9 GPA

**Bachelor of Technology in Computer Science** Completed (Jun 2022)

**Guru Nanak Dev University**, Amritsar, Punjab 3.83 GPA

# Work Experiences/Internships

**KPMG India**, Gurugram, Haryana

*Intern (Full Time)* Jan 2022 – Jul 2022

* Worked on **Revenue assurance in toll operations** and learned about collecting, cleaning, and detecting inconsistencies through KPIs.
* Performed checks using SQL scripts with PostgreSQL and gained a lot of experience from it.
* Gained insights about Modern UI with HTML, CSS, and JS while working on the **Governance and Operations Tool** with the entire backend in the Microsoft SSMS.
* Developed some parts of the front and back end while working on an **Audit Automation Tool** to automate audit reports using the concepts of SDLC Methodology with properly planned sprints.

## Gannon University Institutional Review Board, Erie, PA

*Junior Software Developer, (Part-Time)* Aug 2023 – Present

* Collaborated on **IRB Tool, a** platform where research projects are validated based on different parameters.
* Researched projects are also validated based on how this would impact people's lives, which is important when thinking of it practically.
* Captured better insights about Modern UI with HTML, CSS, JS, and Vue.js while working on this tool and tried to use my experience while developing the tool while trying to build this complex project with Figma.
* Worked on the front and back-end parts of the **IRB Tool** with different teams and developed some parts of the API using full-stack principles.

# Campus Engagement

**Gannon University On-Campus Position**, Erie, PA Aug 2023 – Jan 2024

* Student Philanthropy Officer
* Collaborated with peers to promote strategic philanthropic activities such as fundraising and volunteerism to create awareness about charitable concerns, and enabled donations within the Gannon Alumni to develop grant opportunities.
* Developed additional understanding of time management, strategic management, and the value of creativity. I also loved working with a team of individuals from various cultural backgrounds.

## Smart Indian Hackathon, during my Undergraduate Degree July 2020

Led our team in the Smart Indian Hackathon Team and gained a lot of corporate experience and enhanced leadership, and communication during that interaction.

**Academic Projects, during my Undergraduate Degree** June 2018 - July 2022

* Headed a group of people during an academic project while learning concepts of C/C++
* Worked with a group of people during an academic project while learning ASP.Net.

# Skills

* **Computer skills:** C/C++, AWS, AI, Git, GitHub, Cloud Architecture, Cloud Networks, Figma, CI/CD Workflows, Linux, Python, C#, Java and JavaScript. MYSQL, MongoDB, PostgreSQL, ReactJS, Reinforcement Learning. Machine Learning, Next.JS, Node, VS Code, Express JS, Bootstrap, Material UI and WordPress, TensorFlow, NumPy, Pandas, Seaborn, Jupiter Notebook, Matplotlib and Sklearn. Worked with messy datasets for EDA during the coursework at Gannon and got hands-on with R.
* **Language skills:** Proficient in English, Hindi & Punjabi Languages.

# Academic Projects

**Programming in ASP.Net Class** Oct 2020

* ESmartBanker – An Internet Banking Website
* Developed a Fast and Fully Secure Net-banking website in ASP.NET and C#.
* Included Modules: New Account Opening, Registering/ Deregistering for Net-Banking, Transaction Section, Updating ProfileSection, etc.
* Transactions made by Secure OTP received by email.
* Maintained a complete repository on GitHub with experience in all the operations and version control.

**Coursework**

* **Programming in C++: -** During my undergraduate Degree, I took this course and training in C++ and completed an academic project of an **Online Examination** System which I did with a bunch of people in a group and learned a lot of things from it and in **Data Structures and Algorithms class,** I solved more than **200 Questions in Leetcode, 130 Problems in Geeks for Geeks, and 340 Problems in Code 360 with C++ as a preferred Language for the Data Structures.**
* **Statistical Computing Subject at Gannon University**. Worked with messy datasets for EDA during the coursework at Gannon and got hands-on with R and Python where we did step by step analysis on the Salaries data starting with Cleaning followed by feature selection and feature engineering to reduce the complexity of the feature to train the model properly and then applying the model onto it and based on the previous analysis tried to predict which ML algorithm would be the best suited on to give best results along with data visualization using matplotlib, seaborn and many more things including creating reports and calculating accuracy of the model with **Detailed analysis on Salaries and Vehicle Fuel Economy Data sets for all the real life analysis along with all the mathematical concepts to remember while doing data analysis.**

# Technical Projects

**Connect 4 using Minimax and Deep Neural Networks using Reinforcement Learning** Feb 2024 - May 2024

* Developed Connect 4 game aiming to implement and train an agent on the game of Connect 4 using the Minimax Algorithm to optimize its gameplay.
* Evaluated the algorithm's ability by comparing the model with a random agent playing the moves randomly.

**Dynamic Website Development and Deployment on AWS using AWS Services** Nov 2023 - Dec 2023

* Created a portfolio-based website that contains information about my academic background.
* Used AWS Services to manage and deploy the website using NGINX and Docker with CI/CD workflows and functions and posted the complete code on Git Hub.
* Maintained complete Security and Scalability to learn and launch Production-based websites.
* Developed a website using Web Development techniques to master AWS Services & concepts.

**Hulu Clone using ReactJS** Feb 2023 - Sep 2023

* Created a project where you can surf around the site to find details about your favorite movies.
* Segregated Movies by various genres, and you can look around for movies in whatever genre you prefer.
* Included Modules: - Watchlist functionality, Search functionality, Casting page, list of seasons, and list of episodes.
* Made using ReactJS. It is done just to learn and implement things with react with complete software built using the concepts of SDLC methodology. Complete repo available on GitHub.

**Movie Recommender System** Nov 2022 - Dec 2022

* Developed a website that recommends movies based on the data related to the movie entered previously parameters on genre, director, and cast.
* Fetched details of the movies, such as title, genre, runtime, rating, poster, casts, etc., are fetched from [TMDB](https://www.themoviedb.org/documentation/api).
* Subjected to sentiment analysis, where the model predicts whether the review is positive or negative.
* Developed using Python, Sklearn, Pandas, Matplotlib, and Numpy.

**Personal Portfolio Website** Jan 2021 - Jan 2022

* Made using React and contains data about my internship, technical skills, and academics.

# Certifications

* Certified in C++ from VMM Education. Jul 2018 - Sep 2018
* Certified in Python from VMM Education. Jan 2019 - Mar 2019
* Certified in Oracle Database: Introduction to SQL Ed.2 from NIIT LTD May 2019 - Nov 2019
* Machine Learning A-Z™: Python & R in Data Science [2022] from Udemy May 2022 - Dec 2022
* Internship in Python for Data Science and Research Methodologies Jun 2023 - Aug 2023
* Cleared the AWS Cloud Practitioner Certification Dec 2023 - Dec 2026
* (https://[www.credly.com/badges/2f86b061-fff8-4d02-9f63-8de91cd3fb33/public\_url)](http://www.credly.com/badges/2f86b061-fff8-4d02-9f63-8de91cd3fb33/public_url))