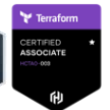


# Kausic Narayanan Manjappara Narayanan

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## Education

**California State University, Chico, USA**

**Dec 2023**

Master of Science in Computer Science

GPA: 3.90

**Anna University, India**

**May 2021**

Bachelor of Technology in Information Technology

GPA: 3.57

## Work Experience

**Computer Science Tutor – California State University, Chico**

**Jan 2022 - Present**

- Worked closely with students and guided them through questions related to data structures and algorithms
- Analyzed and helped troubleshoot the code with students, shared best practices and provided feedback
- Exemplified analytical problem-solving skills through regular weekly office hours for students
- Skilled in breaking down complex concepts and making them easy to understand for students of all levels

**Computer Student Assistant – California State University, Chico**

**Jan 2022 - Present**

- Managed and provided technical support using CMMS (Computerized Maintenance System) software
- Tracked and fixed desktop support tickets for hardware/software installation, repaired and reimaged workstations
- Accomplished successful migration to Windows 10 on all the staff and lab computers
- Demonstrated strong communication and interpersonal skills in a collaborative team environment

## Projects

**Video Rental API – Personal Project**

**Jun 2023 - Aug 2023**

- Developed a video rental API using Node.js and Express.js, integrated with MongoDB, hosted on Amazon EC2
- Enforced JWT-based user authentication for secure access to the video rental API.
- Implemented a CI/CD pipeline with Jenkins, Docker, Kubernetes for automated deployment
- Orchestrated AWS infrastructure using Ansible and Terraform, optimizing network and resource provisioning.

**Cloud Resume Challenge – Personal Project**

**Apr 2023 - May 2023**

- Developed a cloud-based resume website using AWS services, showcasing HTML, CSS, and JavaScript skills
- Deployed the website as a static site on Amazon S3, secured with HTTPS using Amazon CloudFront
- Implemented a visitor counter using DynamoDB, API Gateway, and Lambda with Python and AWS SDK (boto3)
- Automated Terraform configuration with CI/CD using GitHub Actions for seamless infrastructure deployment

**Video Game Discovery App – Personal Project**

**Jan 2023 - Apr 2023**

- Developed a video game discovery app using React and RAWG API, with advanced filtering and dark mode option
- Built a clean and responsive user interface with Chakra UI for easy navigation and improved user experience
- Deployed the app on Amazon EC2 for high availability, scalability, and reliability
- Implemented CI/CD using AWS Code Pipeline for automated build, test, and deployment

**Organizer – CSU, Chico**

**Aug 2022 - Sep 2022**

- Designed a full stack Organizer web service using HTML, CSS, JavaScript, Bootstrap, Django & Python
- Developed a web-based task manager and expense tracker to efficiently manage tasks and expenses
- Utilized Docker to containerize the application for easy deployment and portability
- Demonstrated cloud expertise by deploying web app on Google Cloud Compute Engine

**Wildfire Prediction using Artificial Neural Network – CSU, Chico**

**Jan 2022 - May 2022**

- Pre-processed weather and fire data with Geopandas to extract geospatial features
- Explored Scikit-Learn models and identified MLP as best for predicting wildfires
- Analyzed and visualized data with Matplotlib and Seaborn to guide model development
- Developed an accurate wildfire prediction model using MLP achieving 90% accuracy

**Voice and Vision based Smart Wheelchair – Anna University**

**Jan 2021 - May 2021**

- Developed a Voice and Vision-based Smart Wheelchair by integrating image processing using OpenCV
- Built an android application for speech synthesis and recognition using Flutter
- Designed eyeball movement tracker algorithm using Python
- Assembled smart wheelchair setup by using Raspberry Pi

## Certifications

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect Associate
- HashiCorp Certified Terraform Associate

## Technical Skills

**Languages:** C++, Python, JavaScript, HTML, CSS, Dart

**Database & Cloud:** MySQL, MongoDB, AWS, GCP, Firebase, CI/CD, Jenkins, Ansible, Terraform

**Frameworks:** Docker, Kubernetes, React, Django, Bootstrap, Scikit-learn, Flutter, Node.js

**Tools:** Eclipse, IntelliJ, VS Code, GitHub, Google Colab, Jupyter Notebook