

GIRISH MALLYA

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SUMMARY

Software engineer with 2+ years of experience in building scalable and reliable SaaS applications. Worked at the global leader in cloud media broadcasting where I handled the complete software development lifecycle of projects. Technically savvy with the ability to pick up new skills, concepts or software on the job. Extensive expertise in developing software systems using Python, Golang and AWS public cloud.

EDUCATION

The University of Florida, Gainesville, FL

Expected Aug 2023

Master of Science in Computer Science,

Relevant Courses: Analysis of Algorithms, Computer Networks, Math for Intelligent Systems

CORE SKILLS

Programming Languages: Python, Golang, Ruby, Shell Scripting

Web Technologies: RESTful APIs, RPC

Cloud Technologies: AWS (Virtual Private Cloud, CloudFormation, SQS, Lambda, EC2, S3, API Gateway, Load Balancers, CloudWatch, EventBridge), CircleCI

Databases: MySQL, Amazon RDS, MongoDB, Redis

Frameworks: Ruby on Rails, Flask, Serverless

Software / Tools: Git, Kubernetes, CI/CD, Linux, Docker

PROFESSIONAL EXPERIENCE

Amagi Media Labs, Bangalore, India

July 2019 – Aug 2021

Software Engineer - Enterprise Cloud Engineering

- Worked on features for Amagi's award-winning broadcast platform called **Cloudport** using reusable, scalable and efficient code, according to industry level conventions, principles and patterns
- Developed a data purging algorithm designed to save cloud costs, while preventing data loss. Reduced the cloud storage cost by up to **60%**
- Designed & built serverless media ingestion solution with **redundancy** and **auto recovery** using AWS services like S3/SQS and EventBridge. Handled the complete Software Development Lifecycle for this project.
- Worked closely with major customers like **NBC Universal** to understand business requirements for dynamic graphic generation and provide pragmatic solutions to meet these needs.
- Involved in the training of new interns in the organization in basic skills like Unix System Programming and Git

ACADEMIC PROJECTS

Concept Hierarchy Tree

June 2018

- Designed a data structure that stores data in a hierarchical manner by ranking items in an abstract tree
- Clustered items into different levels on the tree based on their similarity to a given input node.
- Developed a ranking system using mathematical models like *Cosine Similarity* and *Jaccard Index* to find out "likeness" among neighbouring items.
- Built a recommendation system by using the *Concept Hierarchy Tree* on data scraped from Amazon listings

A Framework for Automatic Diagnosis of Psychological Disorders

June 2019

- A funded research project at *KLE Technological University* in collaboration with psychiatrist *Dr Anand Pandurangi* in India and his clinic
- Designed and developed a framework that included a full-stack web application along with a ML model.
- Aided the partnering clinic in the migration of handwritten patient data to digital data on the web framework.
- ML framework was capable of predicting mental illness based on input symptoms in real-time. Multiclass classification precision of **85%** achieved

ACHIEVEMENTS

- **Finalist at Bosch Inscribe 2017 by Robert Bosch, India** - Presented a paper on improving the performance of self-driving cars using Conway's Game of Life AI model (*Top 5 among 700+ teams*)
- **2nd place at ETS-BFS Datathon by Unilever, India** - Optimised the logistical budgeting for Unilever to aid in warehouse and fund management (*Top 2 among 315 teams*)
- **Finalist at HackWithInfy 2018 by Infosys, India** - Finalist at annual national level coding contest organized by Infosys. Was offered a job as a Systems Engineer Specialist at Infosys. (*Top 100 out of 50000+ entries*)