

# Aryan

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## EXPERIENCE

### DISH NETWORKS | SOFTWARE ENGINEER

Feb 2024 – Feb 2025 | Bangalore, India

- Developed a secure user interface for password management in Flask with LDAP encryption, implementing reset and update functionality, enhancing security and boosting user engagement by 40%.
- Built a UI for Prisma Image approval using ReactJS (JavaScript), Material-UI, State management and React Hook Form, enabling security teams to approve CVE IDs based on EPS and percentile with data visualizations (charts). Optimized performance using Lazy Loading and Code Splitting.
- Redesigned and migrated an application from Flask to React, leveraging Babel, Webpack, and React.memo, resulting in a 30% improvement in user experience and a wider user base.
- Integrated GitLab CI/CD with Git version control, automating build triggers, reducing integration issues, and enabling continuous feedback on code health.
- Developed REST APIs for a 5G infrastructure diagnostic tool, monitoring cluster health, infrastructure metrics, and POD status, with real-time alerts on a React UI dashboard with AWS. Ensured system integrity via periodic job executions and pre/post-upgrade validations.
- Reduced upgrade failures by 90%, improving system stability, using Flask for API development, Pytest for unit testing, and Kubernetes for container orchestration. Implemented Test-Driven Development (TDD) for robust solutions.
- Implemented a Multilevel Caching Mechanism, optimizing ZTP site validation performance by 25%, ensuring efficient data retrieval using Redis Cache (Microservices).
- Designed and optimized PostgreSQL database schemas, ensuring efficient data storage, normalization, and indexing for enhanced query performance.

## PROJECTS

### AWS CLOUDTRAIL LOG AUTOMATION | PYTHON, FLASK,

REST API, BOTO3, CLOUDTRAIL

Feb 05-2024 | Dish Networks

- Developed a Python-based solution using Boto3 to fetch AWS CloudWatch logs with filters for region, date, time, resource type, and username, leveraging the AWS lookup table for optimized queries. Used multi-threading and pagination for better performance.
- Automated CloudTrail log retrieval with multi-attribute filtering via dropdowns, integrated with Elasticsearch, improving UX for 800+ users.

### COLLEGE BAZAAR | MONGODB, JAVASCRIPT, NODEJS,

REACTJS, EXPRESS.JS

- Developed a platform for university students to buy and sell used items conveniently. Integrated real-time chat for seamless buyer-seller communication.
- Used JWT for authentication, Socket.io for real-time chat.

## EDUCATION

### SIDDANGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

BACHELOR OF SCIENCE IN

COMPUTER SCIENCE

2020-2024 | Tumkur, Karnataka

Cum. GPA: 8.6

## SKILLS

### PROGRAMMING

1+ years:

- React Js/Nodejs
- Javascript/C++/C
- HTML5/CSS
- Python/ Flask
- PostgreSQL/MongoDB
- RESTAPI
- Data Structure and Algorithm
- OOPS
- Microservices
- Computer Networks
- Operating System

### TECHNOLOGY

Git/GitLab • AWS • Linux

UNIX/Shell scripting • Docker •

Kubernetes • Agile

## CERTIFICATES

Python Entry Level certifies (PCEP)

Hackerank certificates for SQL, C++/C programming

CCNA certified

## LINKS

LinkedIn:// Aryan