

# Shereen Anand

Email | +91-6366009990 | LinkedIn | GitHub  
PES University — Junior year student — Bengaluru, India

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## Education

### PES University

B.E. in Computer Science and Engineering

Sept 2022 – Jul 2026

CGPA: 3.92/4.0

Relevant Coursework: Algorithmic Game Theory, Computational Finance, High-Performance Computing, Distributed Systems

### Rashtreeya Vidyalaya Pre University College (KSEEB, Class 12)

2020 – 2022

Score: 572/600

Relevant Coursework: Physics, Chemistry, Mathematics, Computer Science

### Sri Kumaran's Children's Home (AISSE, Class 10)

2018 – 2020

Score: 465/500

Relevant Coursework: Mathematics, Science, Computer Applications, English

## Technical Skills

- **Programming Languages:** Python, C++, Rust, GoLang, PHP
- **Operating Systems:** Linux (Ubuntu, CentOS), Windows
- **Networking:** TCP/IP Fundamentals, Load Balancing, Content Delivery Networks (CDNs)
- **Systems Knowledge:** Distributed Caching (Memcached), LAMP Stack, CI/CD Pipelines
- **Tools & Platforms:** Docker, Kubernetes, Prometheus, Grafana, Jenkins, Terraform

## Experience

### DevOps Intern — CloudStack Solutions

May 2024 – August 2024

- Designed and implemented a high-availability distributed caching system using **Memcached** to improve query response times by 40%.
- Automated deployment pipelines using **Jenkins** and **Terraform**, reducing deployment times by 60%.
- Conducted root cause analysis for live production issues, implementing hotfixes with zero downtime.
- Optimized resource utilization on Kubernetes clusters, reducing cloud costs by 25%.

### Systems Engineering Intern — ScaleUp Tech

January 2024 – April 2024

- Built a fault-tolerant backend for handling real-time messaging services, scaling to support over 2 million concurrent users.
- Developed network monitoring dashboards using **Prometheus** and **Grafana**, improving system uptime by 99.9%.
- Enhanced system scalability by designing and implementing load-balancing strategies for API gateways.

### Backend Engineering Intern — Nexa Labs

June 2023 – December 2023

- Developed RESTful APIs to support high-traffic e-commerce platforms, improving throughput by 35%.
- Integrated **Redis** for session management, reducing database load by 20%.
- Collaborated with frontend teams to implement end-to-end testing frameworks.

## Projects

### Distributed File Storage System

- Developed a distributed file storage system in **GoLang**, ensuring high availability and fault tolerance using a consistent hashing algorithm.

- Implemented **TCP/IP-based socket communication** for efficient data transfer across nodes.
- Achieved a 30% increase in system performance through optimized disk I/O operations.

#### **Live Debugging Tool for Production Environments**

- Built a real-time debugging tool to identify and mitigate issues in production systems, reducing Mean Time to Recovery (MTTR) by 50%.
- Utilized **Python** for backend scripting and **Rust** for low-latency operations.
- Integrated with existing CI/CD pipelines for seamless adoption across teams.

#### **Real-Time Analytics Dashboard**

- Designed and developed a real-time analytics dashboard using **React** and **Node.js**, enabling monitoring of user engagement metrics.
- Implemented WebSocket-based data streaming for live updates.
- Enhanced performance by caching frequent queries with **Redis**.

#### **Dynamic Load Balancer**

- Created a dynamic load balancer in **C++** to distribute traffic across multiple servers, ensuring minimal latency and high availability.
- Incorporated health checks and failover mechanisms to maintain system reliability.
- Achieved 99.95% uptime during peak loads.

## **Achievements**

- **Meta Hackathon 2024 Finalist:** Designed a scalable solution for real-time data synchronization across distributed systems.
- **AWS Certified Solutions Architect – Associate (2024):** Gained expertise in designing and deploying scalable systems on cloud platforms.
- **Top 5% in HackerRank Production Engineering Challenges:** Demonstrated strong debugging and problem-solving skills in competitive scenarios.

## **Leadership & Activities**

- **Head of Systems Operations, University Tech Club:** Led a team of 15 students to manage on-campus server infrastructure and hosting services.
- **Speaker at DevOpsCon 2024:** Presented a talk on Building Resilient Systems for Scale.