

KRISHNASAI

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SUMMARY

Computer Science Engineering graduate with a strong interest in artificial intelligence, cloud computing, and data-driven applications. Experienced in developing academic projects using Python and deep learning techniques, with hands-on internship exposure to Linux system administration and AWS cloud infrastructure. Skilled in problem-solving, communication, and technical documentation.

EDUCATION

Bachelor of Technology (B.Tech), Computer Science Engineering

08/2022 – 05/2026

College of Engineering Vadakara — Vadakara, Kerala

TECHNICAL SKILLS

- Languages: Python, HTML, CSS, C, SQL
- Tools: VS Code, Unity
- Cloud & DevOps: AWS (S3, Lambda, API Gateway, DynamoDB, Cognito, CloudFront, EC2, RDS, VPC, IAM, Route 53, ACM, Bedrock), Linux server administration, Nginx, Apache, MySQL
- Core Concepts: Web Development, Machine Learning, Deep Learning

EXPERIENCE / INTERNSHIP

Intern – CloudOps Engineer, EPI-USE

Jul 2026 – Present

- Month 1 – Linux: Completed structured Linux/sysadmin training covering LEMP stack (Nginx, PHP-FPM, MySQL, WordPress), reverse proxying, SSL, FTP/SCP/rsync, backup automation, log monitoring, and mail server setup; configured Fail2Ban and SSH hardening on a live AWS EC2 server and completed a WordPress migration and hosting exam task.
- Month 2 – AWS: Built hands-on AWS skills across IAM, EC2, S3 (versioning, lifecycle, encryption, replication), CloudFront, and RDS MySQL, including designing a custom VPC with public/private subnets and configuring Multi-AZ failover and read replicas.
- Month 3 – Project & Prompt Engineering: Applied AWS and AI skills to self-directed projects for hands-on learning, alongside coursework in prompt engineering.

PROJECTS

Vault – Serverless Cloud File Storage Application

- Built a full serverless file storage platform on AWS using S3, Lambda, API Gateway, DynamoDB, Cognito, and CloudFront.
- Implemented secure file upload/download via pre-signed URLs generated by a Python Lambda function, with file metadata tracked in DynamoDB.
- Designed a polished drag-and-drop frontend with upload progress, toast notifications, and a dynamic file list.
- Set up Cognito-based JWT authorization on all API Gateway routes to secure the application per-user.

CloudLens – AI-Powered AWS Resource Detection, Cost Analysis and Reporting

- Built a Python and Boto3 pipeline that scans an AWS account for EC2, EBS, S3, Lambda, RDS and Elastic IP resources and pulls cost data from Cost Explorer and usage data from CloudWatch.
- Used Amazon Bedrock (Claude Haiku) to classify resources as likely exam leftovers or active project resources; it correctly flagged stopped EC2 instances and their volumes in testing.
- Generated a PDF report with ReportLab (flagged resources, cost by service, chargeable vs free) and emailed it to the mentor through Amazon SES. Read-only by design: it reports and never deletes.

Portfolio Website on AWS – iamkrishnasai.click

- Hosted a static website in a private S3 bucket and served it over HTTPS through CloudFront using Origin Access Control, so the bucket is never public.
- Registered a custom domain with Route 53 and configured an alias record to point it at the CloudFront distribution.
- Issued a free SSL certificate with AWS Certificate Manager (DNS validation) and attached it to the distribution.
- Designed responsive HTML/CSS pages for the site.

Virtual Keyboard

- Developed a virtual keyboard with dynamic key mapping and real-time input handling.
- Enhanced user experience with responsive GUI design and event-driven programming.

Academic Integrity Verification System

- Developed a system to detect plagiarism in project and seminar reports.
- Automated originality checks and similarity report generation, improving efficiency and accuracy in academic evaluation.

STRENGTHS

- Demonstrates leadership and project management skills.
- Self-motivated with a positive work attitude.