Monesh Kovi

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Education

Saint Louis University – Master of Information Systems — Aug 2023 – Present
GPA: 3.95

Presidency University – Bachelor of Information Science — Aug 2019 – Apr 2023
GPA: 3.4

Work Experience

Cloud Architect Intern – *Alphathena*, Chicago, IL — Jan 2025 – Ongoing

❯ Centralized AWS service logs and built an OpenSearch dashboard to streamline log monitoring and reduce issue triage time by 40%.
❯ Built a scalable ETL framework using Python and Apache Airflow to automate daily data imports, reducing human intervention by 90%.
❯ Designed and implemented a log archival pipeline to move PROD API and Flask logs to S3 with automated Glacier transition after 15 days, optimizing storage costs and ensuring audit readiness.

Cloud Architect Intern – *Alphathena*, Chicago, IL — May 2024 – Aug 2024

❯ Implemented cloud security architectures and coordinated with penetration testing teams to identify and address vulnerabilities.
❯ Developed & Implemented the security of cloud instances by implementing an automated monthly rotation of PEM files, enhancing instance protection and access control.
❯ Developed custom AES encryption for S3 objects, ensuring robust data security and compliance with industry standards.

Software Engineer Intern – *Wrecked Esports*, Bangalore, India — Apr 2023 – Jul 2023

❯ Designed and deployed an internal reporting dashboard using advanced MySQL queries to enhance decision-making
❯ Enhanced invoice accuracy and query responsiveness by 44% while cutting maintenance needs by 50% using AI.
❯ Developed serverless applications using AWS Lambda and API Gateway for improved cost efficiency and scalability.

Software Engineer Intern – *Wrecked Tech Private Limited*, Bangalore, India — Jan 2023 – Mar 2023

❯ Automated testing processes with Bash scripts, improving system reliability and operational efficiency.
❯ Developed a feed refresh algorithm that boosted processing speed by 150% and increased content uniqueness by 80%.
❯ Performed advanced data analysis with Pandas and NumPy, enabling data-driven decision-making and identifying key metrics.

Projects

AI-Powered Content Generation and Management Platform, Self-Developed — *AWS, OpenAI, Elastic Beanstalk, S3, Secrets Manager*
Developed and deployed an AI-powered platform using AWS Elastic Beanstalk, integrated OpenAI's GPT-4 API for automated content generation, and utilized Amazon S3 for secure, scalable storage, reducing manual effort by 70%.

AI Agents for Medical Diagnosis, Self-Developed — *Python, OpenAI, WeasyPrint, Threading, Jinja2*
Designed and implemented a system of specialized AI agents (Cardiologist, Psychologist, Pulmonologist) that analyze medical reports concurrently, providing multidisciplinary diagnoses and generating professional PDF reports with comprehensive assessments and treatment recommendations.

Core Skills

Languages: Python, JavaScript, HTML, CSS, Bash
Cloud & DevOps: AWS (EC2, S3, Lambda, Glue, VPC, API Gateway, CloudTrail, Quicksight), Docker, Git, Linux, Cloudflare
Data Engineering & Analytics: Apache Airflow, ETL, Elastic Stack, Pentaho, Scikit-learn
Databases: MySQL, Redis, InfluxDB, DynamoDB
Frameworks: ReactJS

Certifications

AWS Certified Developer – Amazon Web Services — Jul 2024
AWS Certified Solution Architect – Amazon Web Services — Jul 2024