

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

Publications

- **Intent-Driven Code Synthesis: Redefining Software Development with Transformers.** Preprint, 2025.
doi:10.20944/preprints202504.1732.v1