

Aditi Akhauri

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Information Security (CGPA: 8.82/10)

Vellore

Aug. 2020 – Aug 2024

EXPERIENCE

Software Development Engineer

BlockConvey

Aug 2024 – Present

New York City, New York

- Contributed to scaling a 0-1 startup from pre-seed to seed stage, optimizing operations and driving growth.
- Built 5+ scalable APIs using Flask/Python, capable of handling 6,000+ requests per minute, ensuring high availability for critical operations.
- Optimized IPFS storage on GCP, improving retrieval speeds by 30%, resulting in faster data access.
- Managed PostgreSQL, MongoDB, and Google Firestore databases, ensuring data integrity and enabling seamless data retrieval for business-critical applications.
- Deployed and Managed applications on GCP App Engine, enhancing system scalability and reliability.
- Developed robust test cases with Pytest, reducing production bugs by 40% and improving system reliability..
- Implemented secure authentication systems using JWT tokens, safeguarding user data and meeting industry compliance standards.
- Delivered responsive React.js interfaces, driving a 25% increase in user engagement and achieving 99.9% uptime with Firebase and OAuth 2.0.
- Built Solidity smart contracts and an AI-powered chatbot using Llama 3.2, increasing blockchain transparency and enhancing customer interaction by 20%.
- Improved database query performance by 35%, reduced API error rates from 33.3% to 0.5% using JMeter, and implemented CI/CD pipelines for seamless deployment.

Software Development Intern

BlockConvey

Jun 2023 – Jul 2024

New York City, New York

- Leveraged Google Cloud and Vertex AI to enhance ML prediction accuracy by 20%, improving decision-making processes.
- Designed the project's architecture, optimizing performance and reducing costs by 15%, aligning with budget constraints.
- Built a ReactJS-based demo website, increasing user interaction by 30%, driving customer engagement, and validating core features.
- Implemented a scalable CloudSQL database, ensuring efficient data storage and high availability for critical operations.

Machine Learning Project Intern

FrugalX

May 2023 – Jun 2023

Bangalore, Karnataka

- Built a real-time drowsiness detection model using MobileNetV2, achieving 95% accuracy and reducing training time by 30%, enhancing model efficiency.
- Deployed the model via TensorFlow.js, enabling lightweight, web-based detection with minimal latency, increasing accessibility for end-users.

PROJECTS

Drowsiness Detection | Jupyter, Kaggle, HTML, Tensorflow.js, CSS

May 2023 – Jul 2023

- Built a real-time drowsiness detection model using MobileNetV2, MediaPipe, and TensorFlow.js for lightweight, web-based accessibility.
- Optimized the model for accuracy and scalability, ensuring high performance in diverse conditions.

Image Processing System | Flask, Celery, Render, PostgreSQL, Redis

Oct 2024 – Oct 2024

- Designed and implemented an asynchronous image processing system using Flask, Celery, Redis, and PostgreSQL, optimizing performance and scalability.
- Enabled efficient bulk image resizing and compression by processing user-uploaded CSV files and URLs, improving workflow responsiveness by 40%.
- Developed webhook notifications and CSV report generation, enhancing automation and user experience.

Secure Password Authentication System | Python, MySQL

Feb 2022 – May 2022

- Created a phishing-resistant authentication system using salting, hashing, and robust cybersecurity practices.
- Strengthened password security by implementing advanced algorithms to prevent reverse engineering and attacks.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript

Frameworks: Spring Boot, Flask, FastAPI, React, Tailwind CSS, Next.js, Bootstrap, Spring JPA/Hibernate

Developer Tools: Git, Docker, Kubernetes, Jenkins, Linux, IntelliJ, VS Code

Libraries: Kafka, Microservices, MVC

Databases: PostgreSQL, MySQL, MongoDB, Redis, Google Firestore

Cloud Technologies:: AWS (EC2, EKS, S3), GCP (GKE, App Engine, Compute Engine)

Other Skills:: RESTful APIs, Object-Oriented Programming (OOP), Agile, Scrum