

# SHADAB HUSSAIN

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## Career Summary

- Experienced System Development Engineer with proven expertise in cloud, full-stack development, and large-scale system migrations, demonstrated through leading critical infrastructure projects at Amazon including zero-downtime regional migrations with 100% deployment success and multi-region architecture implementations using AWS services (Lambda, ECS, SQS, DynamoDB, ElastiCache, S3, OpenSearch). Proficient in REST API development, serverless solution design, and React TypeScript, while eliminating manual processes through automation and achieved 80% deployment time reduction via CI/CD pipelines. Successfully developed and deployed scalable MVC applications and cloud-based services supporting 200+ daily active users with sub-300ms response times and 99% availability.

## Technical Skills

**Languages:** Python, JavaScript ES6, SQL, HTML, CSS/SASS

**Framework:** Flask, Express.js, Node.js

**Database:** MSSQL, MongoDB, Azure BLOB Storage, AWS DynamoDB

**Cloud & DevOps:** AWS Cloud, Azure App Service, CI/CD Pipeline Automation, Docker

**Technologies:** Linux (Ubuntu), Bash Scripting, Git & GitHub

**Other:** API Design, Automation, Data Structure & Algorithm, Application Monitoring & Debugging

## Experience

### Amazon

May 2025 – Current

#### System Development Engineer I

Hyderabad, Telangana

- Currently leading ElasticSearch data migration for the delivery service to a new region, maintaining in-sync incremental data & traffic shifting to ensure seamless transition and zero data loss
- Established core infrastructure for a high-volume transaction detail storage service in a new AWS region, configuring ECS, ElastiCache, IAM, OpenSearch, and Cloudwatch Alarms. Resolved critical deployment dependency issues by introducing explicit alarm dependency management, ensuring reliable and repeatable regional setup
- Developed and integrated cross-service Lambda and S3 automation for campaign data extraction, CSV generation, and secure transfer using role-based access, removing manual data-handling steps
- Implemented Sev 2.5 ticket visualization in an OnCall tool by updating DynamoDB schema, AppSync schema, and Lambda logic to introduce conditional filtering improving triage visibility and incident response time

### Mintways Technologies Pvt Ltd

September 2024 – May 2025

#### Software Engineer

Bangalore, Karnataka

- Developed an MVC web application, scalable APIs, integrating 5+ self-developed and third-party services, improving functionality and supporting 200+ daily active users with response times under 300 ms.
- Built and deployed 3 cloud-based back-end services using Azure Functions, App Service, Azure Storage Accounts, and Azure Active Directory, supporting 100+ daily executions with 99% availability
- Automated deployments using GitHub Actions, reducing deployment time by 80%, and eliminating manual steps, enabling faster releases for API and MVC applications
- Developed API systems for two organizations with integrated ML models, supporting 100+ users and improving data processing speed by 75% while maintaining 99% functioning time during peak traffic

## Projects

### ShrinkIt | Full Stack Web Application | Python, Flask, PostgreSQL

- Designing and implementing a system to generate unique, shortened URLs using hashing techniques to ensure uniqueness and improve generation efficiency
- Integrate tracking functionality for URL usage, clicks, and access patterns to provide insights into user behavior
- Optimizing the system to handle multiple user requests concurrently through asynchronous processing and efficient database interactions.

### Encrypted Notes | Full Stack Web Application | Node.js, Express.js, MySQL, AES-128

August 2023

- Developed a web application using AES 128-bit encryption and JWT Cookie-Authentication to ensure secure user sessions and data protection.
- Integrated Bcrypt encryption to secure user passwords during sign-up, login, and profile management, protecting the data of all users and maintaining a secure system with a 60% reduction in potential security vulnerabilities
- Incorporating Data At Rest-Encryption by integrating AES 128-bit encryption for sensitive data and advanced search functionality for better user experience

## Education

### Bihar Engineering University

Nov. 2020 – Sep 2024

#### Bachelor of Technology in Computer Science & Engineering

Patna, Bihar