

# Udit Aswal

## Software Engineer

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### Summary

Results-driven IT professional with 3 years of experience as a Production Support Engineer at HCL Technologies (Western Union project). Started via the TechBee program after 12th grade with 1 year of training. Skilled in monitoring, incident management, and cloud/on-prem systems. Currently pursuing MCA (WILP), and transitioning into full-stack development.

### Experience

2022 – Present

#### Lead Production Support Engineer, HCL Technologies (Western Union Project)

- Led a team of 10 engineers in 24×7 rotational shifts, ensuring high system availability and incident resolution.
- Developed internal tools using **Node.js**, **Express.js**, **React.js**, **MongoDB** and automated workflows using Python, improving team efficiency.
- Designed monitoring dashboards and alerting systems using **Splunk**, **OpenSearch**, **Dynatrace**, **ServiceNow**, integrated with BigPanda, xMatters, and ServiceNow, enabling proactive issue detection and maintaining 100% SLA compliance.
- Analyzed and debugged production issues in **Java**, **TIBCO BE/BW**, **Talend**, and **AWS microservices** impacting customer experience and payment flows.
- Worked extensively with **Oracle SQL**, **Snowflake**, and **Couchbase Capella** for troubleshooting, performance optimization, and reporting.

### Projects

2025

#### Healthcare Appointment System, [Live Link](#) | [GitHub](#)

- Architected full-stack appointment management workflows with server-side rendering and efficient state handling.
- Built admin control panel for appointment lifecycle management with role-based authorization.
- Integrated asynchronous SMS notification pipeline using Twilio for real-time communication.
- Designed secure file upload pipeline with Appwrite storage, ensuring controlled access and data integrity.
- Tech Stack: **Next.js**, **TypeScript**, **Tailwind CSS**, **ShadCN UI**, **Appwrite**, **Twilio**.

2025

#### URL Shortener, [Live Link](#) | [GitHub](#)

- Engineered a full-stack URL shortening service supporting guest and authenticated user workflows with efficient routing.
- Optimized URL resolution using indexed queries to achieve low-latency redirection.
- Implemented secure authentication using JWT, HTTP-only cookies, and bcrypt-based password hashing.
- Built a user dashboard with search, filtering, sorting, and analytics (click tracking, country-level insights).
- Integrated structured logging (Winston) and applied security best practices including rate limiting, input sanitization, HTTP header hardening, and injection protection; validated functionality with end-to-end integration tests (Supertest, MongoDB).
- Tech Stack: **Node.js**, **Express.js**, **MongoDB**, **Mongoose**, **EJS**, **JWT**, **Render**.

### Education

2025 – 2027

**Masters of Computer Applications (MCA)**, Amity University (WILP) ~ Pursuing

2022 – 2025

**Bachelors of Computer Applications (BCA)**, Amity University (WILP) ~ 8.07 CGPA

2021 – 2022

**TechBee Program**, HCLTech

2020 – 2021

**Senior Secondary**, New Green Field School ~ 86%

### Technical Skills

Languages Java, JavaScript, TypeScript, SQL

Frameworks Node.js, Express.js, React.js, Next.js, Tailwind CSS

Databases MongoDB, Oracle SQL, Snowflake, Couchbase Capella

Cloud/DevOps AWS, Azure, Docker, CI/CD, Nginx, Linux

Tools Splunk, Dynatrace, OpenSearch, ServiceNow, Jira, Postman, Git

Concepts Microservices, REST APIs, Cloud Computing, Operating Systems, Database Management, Data Structures and Algorithms

### Certifications

Azure Developer (AZ-204) | Azure AI (AI-900) | Azure Fundamentals (AZ-900)