

# AKASH N

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Akash N

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## About Me

ABachelor of Engineering student majoring in Computer Science and Engineering, eager and committed to securing an entry- level position in Software Development. Passionate about utilizing and improving skills, committed to ongoing learning, adaptability, and making a positive impact in the IT industry.

## Technical Skills:

DevOps&Cloud	: AWS, Azure, Linux, Shell Scripting, Docker, Jenkins, Git, GitHub, Kubernetes (beginner)
Programming & Scripting	: Core Java, Python, JavaScript, HTML, Tailwind CSS, Data Structures, OOPs Concepts
Frameworks & Developer Tools	: Spring Boot, React JS, REST API, JDBC, AWS, Jenkins, Git and GitHub
Databases	: MySQL, PostgreSQL
Other Tools	: JWT Authentication, Twilio OTP, Matplotlib

## Soft Skills:

Disciplined, Team Player, Enthusiastic, Self-Motivated

## Internship:

Web Development	- Aster India Private Limited
Back End Development	-Code Bind Technologies

## Projects:

Project Name: Real-Time Patient Monitoring System

Technologies: Java, Spring Boot, React JS, PostgreSQL, MySQL, REST API, Tailwind CSS, JWT, Twilio OTP, Matplotlib

Project Description:

- Developed a web-based hospital management system for real-time patient monitoring.
- Implemented backend in Java using Spring Boot, handling patient vitals, alerts, and secure login.
- Designed a dynamic React JS frontend with responsive UI using Tailwind CSS.
- Integrated REST APIs for seamless communication between frontend and backend.
- Stored and managed patient data using MySQL and PostgreSQL databases.
- Added security features: JWT-based authentication, OTP verification via Twilio.
- Implemented data visualization using Matplotlib to track patient trends.
- Enabled PDF export of patient records for hospital reporting.
- Highlighted critical patients in red for instant doctor alerts.

Key Contributions / Achievements:

- Automated real-time alerts for critical patient conditions.
- Built secure, role-based login system for hospital management.
- Developed interactive dashboard with one-year patient data tracking.
- Successfully simulated 1000+ patient data for testing and validation.

## Mini Projects:

1. Project Name: Hospital Patient Dashboard

Technologies: Java, Spring Boot, React JS, MySQL

Description:

- Developed a web-based dashboard for tracking patient vitals.
- Implemented interactive charts to visualize real-time data.
- Integrated REST API for seamless frontend-backend communication.

2. Project Name: Student Management System

Technologies: Java, JDBC, MySQL

Description:

- Built a system to manage student records and attendance.
- Implemented CRUD operations using Java and MySQL.
- Applied OOP concepts to structure the application efficiently.

3. Project Name: Online Quiz Platform

Technologies: HTML, CSS, JavaScript, Python (Flask)

Description:

- Created a web application for online quizzes with real-time scoring.
- Developed login authentication and user management.
- Stored quiz data in MySQL database for analysis.

4. Project Name: Real-Time Patient Monitoring System (DevOps Focus)

Technologies: Spring Boot, React, GitHub Actions (CI/CD), AWS, JWT, Twilio

Description:

- Built and deployed a hospital management system with Spring Boot backend and React frontend.
- Automated deployments using GitHub Actions with a CI/CD pipeline.
- Implemented secure login with JWT authentication and Twilio OTP verification.
- Deployed the system on AWS cloud, simulating 1000+ patient records.
- Configured monitoring dashboards and automated alerts for critical patients.

Education :

Amrita College of Engineering and Technology - Nagercoil	Nov 2021 – May 2025
B.E-Computer Science and Engineering	CGPA 7.9
Government Higher Secondary School - Tenkasi	June 2020 - March 2021
HSC : Math Computer	Percentage: 77

Certifications :

Python - Completed  
AWS - Completed  
Linux - Completed  
DevOps - Completed  
Azure - Completed

Languages:

Tamil (Native)  
English (Intermediate)  
Malayalam (Understandable)

Hobbies

Problem Solving, Fitness, Health Oriented, Cooking