

# Ashahar Yunus Khan

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## EDUCATION

### Vellore Institute of Technology

Bachelor in technology in Computer Science

Chennai, TN

Sep, 2022 – May, 2026

### St Joseph's College

Higher Secondary Education

Allahabad, UP

Mar, 2008 - Mar, 2022

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML, CSS, R

**Frameworks:** Spring Boot, React, React Native, Node.js, Express, Expo, Flask

**Databases:** SQL, Firebase, MongoDB

**Tools/Platforms:** Git, Linux, Docker, Kafka, AWS, VS Code, IntelliJ, Android Studio

**Libraries:** NumPy, Pandas, TensorFlow, PyTorch, Keras, Matplotlib

**Concepts:** REST APIs, Microservices, gRPC, Kafka Messaging, JWT Auth, CI/CD, Git Workflow, Agile

## ACHIEVEMENTS & CERTIFICATIONS

- **Winner, Spectrum Hackathon 2025** – 1<sup>st</sup> place among 300+ teams for a VR-based bike repair app.
- **Top 25, CodeVolt Hackathon 2025** – Finalist for agriculture-focused mobile app.
- **LeetCode** – Solved 450+ DSA problems across various platforms.

## EXPERIENCE

### Web Development Intern

Oct 2023 – Mar 2024

Natt Labs

Bangalore, India

- Developed and deployed responsive UI components using React, improving mobile compatibility and overall user experience.
- Reduced homepage load time by 30% by implementing lazy loading, compressing images, and minifying scripts.
- Resolved 20+ UI/UX bugs and collaborated with designers to enhance website responsiveness and usability.

## PROJECTS

### CareConnect – Distributed Healthcare Platform | *Spring Boot, Docker, gRPC, Kafka, AWS*

April 2025 – Present

- Engineered a microservices-based healthcare platform to manage patient data, billing, authentication, and analytics independently.
- Implemented REST/gRPC/Kafka-based inter-service communication for low-latency, real-time data exchange.
- Integrated Spring Security with JWT authentication to safeguard APIs, routed via an API Gateway.
- Dockerized 5+ services and deployed infrastructure on AWS using LocalStack and CloudFormation templates.

### AgriVision | *Flutter, Dart, Firebase, TensorFlow, PyTorch, Flask*

Sep 2024 – Present

- Developed a cross-platform mobile app that helped 100+ farmers detect crop diseases in real time using smartphone cameras.
- Trained a PyTorch image classification model with 95% accuracy for disease prediction from plant images.
- Integrated Firebase for secure authentication and real-time database syncing to enhance user engagement.

### Emotion Detection for Elderly | *Python, OpenCV, Keras*

May 2024 – Present

- Built an emotion detection system using CNNs trained on a custom-modified FER-2013 dataset focused on elderly individuals.
- Incorporated 1,000+ additional facial samples for model fine-tuning, improving recognition accuracy by 15%.
- Achieved 92% accuracy in detecting emotional states, enabling early wellness alerts for caregivers.