



# Akhil Francis

## Software Engineer

Backend engineer with expertise in TypeScript, Node.js, NestJS, and PostgreSQL. Skilled in building RESTful APIs and optimizing database performance. Thrives in collaborative environments and always looking for new challenges.

✉ akhilfrancis0007@gmail.com

📍 Thiruvananthapuram, India

🔗 quora.com/profile/Akhil-Francis-4

📞 07559022392

🌐 in.linkedin.com/in/akhil-francis-41b215165

🐙 github.com/akhilfrancis

## WORK EXPERIENCE

### Associate Software Engineer Keyvalue Software Systems

07/2021 - Present

Kochi, Kerala.

A company which focuses on building products from scratch for well funded startups.

#### Achievements/Tasks

- Designed and implemented an alert system integrated with Slack, to monitor microservice errors, as an alternative to Sentry for development and staging instances.
- Developed a cron job using AWS EventBridge and AWS Lambda to automate daily product publication from catalogue to SFTP server, enabling easy injection of ads into Google Ads and Facebook Ads.
- Designed and implemented a secure OTP (One-Time Password) system with rate limiting for enhanced security.
- Skilled in third-party payment integrations including setting up webhook infrastructure.
- Experienced in Terraform for infrastructure provisioning, with a proven track record of utilizing various AWS services.
- Provided front-end support by occasionally working with ReactJS to supplement team resources.
- Written Unit Tests using Jest, Mocha, Chai
- Skills - Typescript, NodeJs, NestJs, PostgreSQL, AWS ( SQS, SNS, RDS, S3, Cloudwatch, Lambda, EC2, CodePipeline ), Docker, Redis, Git .

## EDUCATION

### Bachelor Of Technology College Of Engineering Trivandrum

08/2017 - 06/2021

8.33

#### Courses

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| - Data Structures and Algorithms | - Database Management Systems         |
| - Distributed Systems            | - Object Oriented Programming ( OOP ) |
| - Operating Systems              |                                       |

## SKILLS

Typescript

C++

NodeJS

NestJS

PostgreSQL

ReactJS

AWS

Microservices

Distributed Systems

REST API

## ACHIEVEMENTS

### HackerRank HackFest 2020

<https://www.hackerrank.com/akhilfrancis>

Won a silver medal badge (Top 8%) in HackerRank HackFest (2020)

## PERSONAL PROJECTS

### Music Playlist Recommender using Genre Classification and Audio Tagging (08/2020 - 09/2020)

- Designed a Recommender System which recommends a music playlist when a user inputs a music which a person likes . The recommendation system analyses the given music input and outputs similar music back to the user .
- Skills Used - Python ,Librosa,PyAudio ,Scikit-Learn, Pandas, Numpy, Flask , MySQL

### Diabetes Prediction Web App (07/2020 - 08/2020)

- Built using Python,Flask ,Scikit-Learn
- Deployed - <https://diabetes-prediction-web-app.herokuapp.com/>

## CERTIFICATES

### Problem Solving ( Hackerrank ) (09/2020)

<https://www.hackerrank.com/certificates/e1f326fc2fb4>

### AWS Fundamentals: Going Cloud-Native (2020)

<https://www.coursera.org/account/accomplishments/verify/ZY8AG8Y4GF57>

## INTERESTS

Distributed Systems

System Design

Machine Learning

Web Applications

Game Development