

Jithin Zachariah

Software Engineer - Backend

Experienced software engineer proficient in designing and developing distributed systems. Skilled in constructing, overseeing, and optimizing scalable services using domain-driven design principles. Expertise includes architecting, migrating, and crafting applications utilising cloud-native technologies across diverse public cloud platforms.

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📍 Berlin, Germany

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WORK EXPERIENCE

Software Engineer

Forto Logistics SE & Co. KG

01/2022 - Present

Berlin, Germany

Achievements/Tasks

- Experienced platform engineer, successfully revamped the authorization system by constructing a distributed authorization platform utilizing Open Policy Agent.
- Build custom extensions at the API gateway level to enforce authentication and authorization checks for all incoming traffic.
- Sustained a system uptime of 99.99% while meeting a latency SLO of 10ms.
- Took the lead on multiple cross-functional initiatives, including driving the adoption of the new authorization system and helping teams with onboarding.
- Deployed, extended, monitored and maintained a highly available authentication system based on Keycloak. Sustained an uptime SLO of 99.9999%
- Experienced product engineer, developed a contract management service to optimize the usage of shipping contracts, preventing penalties from under/overuse across partners, and engineered an allocation system for higher gross profit per shipment.
- Enhanced routing algorithm in the quotation engine, cutting average search latency by 50%, leading to improved user experience and increased revenue.
- Actively participated in the on-call team, ensuring optimal uptime for products/services. Managed numerous incidents with significant impact on the organization..
- Took an active role in fortifying the company's engineering culture by improving developer experience, refining processes and workflows like incident reviews, and enhancing internal libraries
- Conducted and led interviews for engineering candidates, evaluating technical skills and cultural fit to support team growth and hiring initiatives.

Software Engineer

Ernest and Young

03/2020 - 12/2021

Trivandrum, India

Achievements/Tasks

- Contributed to crafting EY's public SaaS tool, Blockchain Analyzer: Reconciler, available at blockchain.ey.com.
- Created and upheld backend APIs and infrastructure for the Reconciler, aiding clients in auditing and reconciling millions of transactions across various cryptocurrencies like BTC and ETH.
- Proficient in Ethereum and Solidity, specializing in asset tokenization using ERC20 and NFTs based on ERC721 standards. Established and supervised fully synchronized crypto nodes on Kubernetes for leading cryptocurrencies.
- Crafted system architecture for a use case encompassing web and native apps, leveraging ElectronJS for Windows and Unix platforms.

Software Engineer

Tata Consultancy Services

02/2019 - 02/2020

Trivandrum, India

Achievements/Tasks

- Developed and maintained backend applications (REST/GraphQL) using NodeJS.
- Developed applications on public blockchains like Ethereum, using Solidity.
- Developed complex stored procedures in SQL for backend applications.

Associate Software Engineer

UST Global

07/2018 - 01/2019

Trivandrum, India

Achievements/Tasks

- Developed and maintained backend applications using .NET and NodeJS.

TECHNICAL SKILLS

NodeJS

Javascript

Typescript

ExpressJS

NestJS

Koa

Fastify

Kubernetes

Helm

Docker

Terraform

CI/CD

Jenkins

SQL/NoSQL

MongoDB

Postgres

Keycloak

OAuth

OIDC

JWT

Open Policy Agent

Rego

Golang

Python

SQS/SNS

PubSub

Azure

AWS

GCP

Grafana

Datadog

Prometheus

Istio

EDUCATION

Bachelors in Electronics Engineering

Cochin University of Science and Technology, India.

PERSONAL PROJECTS/ACHIEVEMENTS

Gherkin Parse

- Gherkin Parse is an NPM library for manipulating cucumber feature files (BDD) containing test cases programmatically.
- The library has more than 12K weekly downloads.

Simple Keygen

- Simple Keygen is a lightweight NPM package that can be used to generate and issue license key files. It uses NodeJS native crypto modules.

The Backend Engineer

- A Medium blog where I write various articles on backend engineering.

GCP Hackathon Runnerup

- Runner-up for the Google Cloud Hackathon conducted across engineers in Germany.

CERTIFICATIONS

Azure Certified: Solutions Architect

Azure Certified: Developer Associate

Azure Certified: DevOps Expert

Azure Certified: Fundamentals