

Jithin Zachariah

Senior Software Engineer - Backend/Infrastructure

I'm a backend and infrastructure engineer with experience designing scalable systems and leading high-impact platform initiatives. I've worked on everything from optimising core logistics algorithms to building secure, cloud-native authentication platforms. I focus on solving real-world engineering challenges across performance, security, reliability, and developer experience—always with a hands-on and pragmatic approach.

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📍 Berlin, Germany

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WORK EXPERIENCE

Senior Software Engineer

Forto Logistics SE & Co. KG

01/2022 - Present

Berlin, Germany

Achievements/Tasks

- Experienced platform engineer in the IAM team; redesigned the authentication and authorization landscape using platforms like Auth0 and Open Policy Agent (OPA) to enhance security, scalability, and policy control.
- Developed custom extensions at the API gateway to enforce AuthN/AuthZ for all incoming traffic, backed by fine-grained observability and automated alerting; maintained > 99.99% uptime and consistently met a 10ms latency SLO.
- Centralized fragmented authentication and authorization flows—eliminating impersonation and duplicate identities—into a unified global identity platform using Auth0, improving security posture and meeting compliance requirements.
- Executed a seamless migration of all internal/external users, applications and machines into the new platform with zero downtime and no business impact.
- Developed and maintained internal SDKs and libraries to drive adoption of authentication and authorization services, significantly improving developer experience and integration efficiency.
- As an experienced product engineer, I enhanced the routing algorithm in the quotation/booking engine, reducing average search latency by 50%, which led to an improved user experience and increased revenue.
- Started as an entry-level on-call engineer and grew into a core incident responder; led triage during significant outages, conducted postmortems, and introduced processes that improved MTTD and MTTR.
- Detected and responded to multiple security incidents, including proposing, convincing C-level executives, and successfully implementing a global password reset within 2 hours to contain a threat—executed without any user disruption.
- Led interviews for ICs and managerial candidates, assessing technical skills and cultural fit to support team growth.

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.

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

ReactJS

Javascript

Typescript

Golang

Python

NestJS

Flask

Kubernetes

Helm

Docker

Terraform

IAC

SQL/NoSQL

MongoDB

Postgres

Keycloak

Auth0

Open Policy Agent

Azure

AWS

GCP

PERSONAL PROJECTS

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.

GCP Hackathon Runnerup

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

Personal Blog

- Personal blog(jithinzachariah.in) where I write various articles on backend engineering.

EDUCATION

Bachelor's in Electronics Engineering

Cochin University of Science and Technology, India.

LANGUAGES

English

Full Professional Proficiency

German

Elementary Proficiency

Malayalam

Native or Bilingual Proficiency

CERTIFICATIONS

Azure Certified: Solutions Architect

Azure Certified: Developer Associate

Azure Certified: DevOps Expert

Azure Certified: Fundamentals