

# Jithin Zachariah

Backend/Infrastructure | Berlin, Germany

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## SUMMARY

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Engineer with 7+ years' experience designing scalable systems and leading high-impact platform efforts. I've built blockchain infrastructure, optimised logistics algorithms, and developed secure, cloud-native and scalable authentication platforms.

## SKILLS

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Typescript, Javascript, NodeJS, NestJS, Terraform, Kubernetes, MongoDB, Postgres, Auth0, Open Policy Agent, Incident Response

## WORK EXPERIENCE

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### Forto Logistics SE & Co. KG

Senior Software Engineer

**Jan 2022 - Present**

*Berlin, Germany*

- Led the redesign of authentication and authorisation systems using Auth0 and OPA, centralising policy enforcement and enhancing security and scalability.
- Built custom auth enforcement at the API gateway (Edgestack) with fine-grained observability and alerting; ensured >99% uptime and met 10ms latency SLOs.
- Unified fragmented auth flows into a global identity platform with Auth0, eliminating impersonation risks and improving compliance and security posture.
- Designed and delivered an internal Security Token Service (STS) for machine-to-machine authentication; replaced distributed client credentials with workload identity for internal services.
- Executed a seamless, zero-downtime migration of users, applications, and machines to the new platform without business disruption.
- Developed internal SDKs and libraries to streamline integration and boost developer adoption of authentication and authorisation services.
- Optimised the booking engine's routing algorithm, reducing search latency by 50%, enhancing UX, and increasing revenue.
- Evolved from junior on-call engineer to lead incident responder during major outages; introduced processes that improved MTTR and MTTR.
- Handled multiple security incidents, including leading a company-wide password reset within 2 hours—C-level approved and executed with zero user impact.
- Interviewed engineers and managers, assessing technical skills and cultural fit to support sustainable team growth.

### Ernest and Young

Software Engineer

**Mar 2020 - Dec 2021**

*Trivandrum, India*

- Contributed to the development of EY's public SaaS tool, Blockchain Analyser: Reconciler, enabling clients to audit and reconcile millions of crypto transactions (BTC, ETH, etc.); maintained core backend APIs and infrastructure.
- Designed system architecture and built internal tooling, including a native app with ElectronJS for behaviour-driven testing using Cucumber, supporting both Windows and Unix platforms.
- Demonstrated strong proficiency in Ethereum and Solidity, with hands-on experience in asset tokenisation using ERC20 and NFT development with ERC721 standards.
- Set up and managed fully synced crypto nodes on Kubernetes to support reconciliation processes across major blockchains.

### Tata Consultancy Services

Software Engineer

**Feb 2019 - Feb 2020**

*Trivandrum, India*

- Developed and maintained applications using Angular and NodeJS.
- Created decentralised applications on public blockchains such as Ethereum using Solidity.

### UST Global

Associate Software Engineer

**Jul 2018 - Jan 2019**

*Trivandrum, India*

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

## PROJECTS

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### Gherkin Parse

- Gherkin Parse is an NPM library for manipulating Cucumber (BDD) feature files programmatically, with 12K+ weekly downloads.

## EDUCATION

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Cochin University of Science and Technology, India

**Jun 2014 - Jun 2018**

GPA: 8