

Vipin V Kartha

SENIOR BACKEND ENGINEER

Berlin, Germany

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“Crafting robust and scalable backend systems, with a keen interest in microservices architecture and cloud solutions.”

Summary

Senior Backend Engineer at Babbel GmbH in Berlin, leading the company's internal AI agent platform and authentication work in the Identity team. Over 12 years of software development experience across start-ups and multinational companies, with a focus on stable and reliable products. Polyglot developer proficient in **Node.js (TypeScript), Golang, Ruby on Rails and C++**, with a proven ability to learn quickly and adapt to new challenges.

Solid understanding of microservice architecture, cloud infrastructure (AWS, Terraform) and event-driven architecture. Interested in finding practical solutions to complex problems and learning new technologies and tools as needed.

Skills

Programming	Node.js, TypeScript, Golang, Ruby on Rails, C++
AI Platform	AWS Bedrock AgentCore, MCP, Langfuse, OpenTelemetry
Identity	OAuth 2.0, OpenID Connect, SAML, Okta
Back-end	REST API, GraphQL, Express, TypeORM, Elasticsearch, Kinesis, Firebase, MQTT
DevOps	AWS (ECS Fargate, Lambda, SQS, SNS, CloudWatch), Terraform, Docker, New Relic
Database	MySQL, DynamoDB, Redis

Work Experience

Babbel GmbH

Berlin, Germany

SENIOR BACKEND ENGINEER, AI PLATFORM

Jun. 2026 - Present

- First engineer on the team; build Babbel's internal AI platform in production with TypeScript (Node.js), AWS and Terraform.
- Lead the agent platform that lets other teams build and run AI agents securely: wrote the design and built it, including a Slack app that starts and schedules agent runs as the requesting user.
- Led the build of an AI agent on AWS Bedrock AgentCore that triages customer-support bug reports: it removes personal data from tickets, drafts a triage proposal for a person to approve in Slack, then opens the Jira ticket.
- Built the agent's approval-to-Jira write path with no duplicate tickets on retries, a low-cost pre-filter step, and end-to-end Langfuse and OpenTelemetry tracing.
- Built all of the platform's AWS infrastructure in Terraform, including CloudWatch dashboards and alarms.
- Built MCP connectors for the company's AI tool gateway.

Babbel GmbH

Berlin, Germany

SENIOR BACKEND ENGINEER, IDENTITY

Jul. 2022 - Present

- Work on authentication and account services with Node.js (TypeScript), Golang, Ruby on Rails, AWS and MySQL.
- Lead the deprecation of the legacy home app, moving its APIs and learner data into the accounts service. Built the replacement session start route, which every app calls after login, with the same response as the home app so apps can switch without changes.
- Led the session management initiative: server-side sessions stored in DynamoDB for web and mobile login, rolled out in stages from staff to all learners with CloudWatch monitoring. Sessions end on logout and on password change.
- Develop and maintain the authentication microservices, improving their scalability and performance.
- Led the CAPTCHA implementation for the entire backend.

KeyValue Software Systems

Kochi, India

SENIOR SOFTWARE ENGINEER, STAFF SOFTWARE ENGINEER

Apr. 2020 - Jun. 2022

- Core member of the team building a B2B product for small retail owners across Indonesia.
- Built Node.js (TypeScript) and Golang microservices on AWS, exposing REST and GraphQL APIs.
- Deployed services with AWS CodePipeline and monitored them with AWS CloudWatch.
- Built asynchronous processing with AWS SQS and S3.

Siemens Technology and Services

Bangalore, India

SOFTWARE ENGINEER (L2)

Nov. 2018 - Apr. 2020

- Backend developer on an IoT project for industrial devices, working in C, C++ and Node.js.
- Worked with the industrial protocols HART, Modbus and OPC UA.
- Implemented several REST APIs.
- Worked on the physical layer for hardware communication over RS-485 and RS-232 using Modbus.

CitiusTech Healthcare Technology Pvt Ltd

SOFTWARE ENGINEER

Mumbai, India

Sep. 2017 - Nov. 2018

- Fixed defects and built enhancements for a healthcare image viewer application, using VC++ and MFC.

HCL Technologies (formerly Geometric Limited)

SOFTWARE ENGINEER

Pune, India

Oct. 2016 - Jul. 2017

- Worked on the development of the DFMPRO product, using VC++ and CAA V6.
- Integrated DFMPRO with the CATIA CAD software.

Aricent Technologies

SOFTWARE ENGINEER

Chennai, India

Sep. 2014 - Sep. 2016

- Maintained and developed a customer product that decodes and analyses live traffic.
- Worked in C++ on both Linux and Windows.

Honors & Awards

2019

Spot Award for Best Performance, Siemens Technology and Services

2014

Best Project Award, Aricent Training Program

Education

TKM College of Engineering

Kollam, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

2010 - 2014

- Algorithms, Data Structures, Complexity Analysis, Compilers, OOP, Networking, Operating Systems, C/Java, Computer Architecture, UML

K.E. Carmel Central School

Cherthala, India

SENIOR SECONDARY (CLASS XII)

2008 - 2010

- Computer Science stream, 92%

St. Ann's Public School

Cherthala, India

SECONDARY (CLASS X)

2007 - 2008

- 91%