



# Kasper Vaus

SOFTWARE ENGINEER

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## Profile

Backend-focused Software Engineer at Twilio with experience building scalable APIs, improving reliability, and optimizing performance for high-throughput communication systems. Strong background in Java services on AWS, distributed workflow orchestration, infrastructure automation, and observability, with end-to-end ownership from design through production operations.

## Employment History

Software Engineer (L2), Twilio, Tallinn

Sept 2024 — Present

- Built and evolved backend APIs for Twilio Notifications, covering device registration, application lifecycle, and recipient management, with standardized error models and OpenAPI-aligned contracts.
- Developed dynamic recipient segmentation capabilities for near real-time filtering, enabling downstream SMS, email, and push workflows to target audiences by attributes such as creation date and location.
- Migrated critical workflows to **Temporal**, improving orchestration reliability, failure handling, and operational maintainability for distributed processes.
- Built an automated **Artillery-based** end-to-end testing pipeline on **Kubernetes**, improving scalability, repeatability, and observability with **Datadog** dashboards and alerting.
- Led development of a **SpiceAI caching sidecar** for a read-heavy internal service, reducing a key backend bottleneck and improving scalability for business-critical downstream systems.

Software Engineer (L1), Twilio, Tallinn

Sept 2023 — Sept 2024

- Delivered **25+ production APIs** for a new internal communications platform, enabling scalable recipient management and integration across Twilio services.
- Reworked database schema and query patterns, including pagination, indexing, and filtering strategies, cutting large-dataset lookup times from about **1.2s to 60ms**.
- Load-tested Twilio Notifications systems with **Artillery** to identify throughput limits and built custom **Python** tooling to automate test execution and scenario management.
- Improved end-to-end test observability by migrating alerting into **Datadog** and automating dashboards and monitors with **Terraform**, reducing manual operational review effort.

## Internships

Software Engineer Intern, Twilio, Tallinn

Jun 2022 — Sept 2022

## Links

[GitHub](#)

[LinkedIn](#)

[Portfolio](#)

## Skills

Java

AWS

RESTful APIs

Kubernetes

Terraform

## Languages

Estonian

English

Russian

- Extended an internal automation tool for the Messaging organization, replacing manual runbook steps and standardizing recurring operational workflows.
- Added business logic, test automation, and bug fixes to a production service while documenting improvements and proposing enhancements to improve team efficiency and code quality.

## **Education**

Bachelor's, Tallinn University of Technology, Tallinn

*Sept 2020 — Jun 2023*

**Hardware Development & Programming**