

Sedat Can Yalcin

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Summary

Highly motivated full-stack software engineer with 4+ years of experience in building and scaling systems on cloud platforms with proven ability to design and implement reliable and performant services on backend and frontend.

Skills

- **Programming Languages:** Python, JavaScript, TypeScript, Java, Go, SQL, HTML5, CSS3
- **Technologies and Tools:** AWS, Docker, Terraform, FastAPI, React, Next.js, Redux, Node.js, Express.js, Spring Boot, MongoDB, Redis

Work Experience

Software Engineer, Experimentation Platform | Klarna | Milan, Italy | December 2022 – Present

- Led comprehensive performance testing for the core backend, building automated performance testing infrastructure and ensuring critical system readiness.
- Designed and implemented secure service-to-service authentication using standard identity systems for critical API access.
- Secured and enhanced production database reliability through configuration updates and network access controls.
- Optimized a core data ingestion pipeline by implementing a new data schema, achieving an 80% reduction in data volume (from 25 GB/hr to 5 GB/hr) and driving significant cloud infrastructure cost savings.
- Engineered a high-performance API endpoint within a sidecar architecture to serve data from the optimized schema. This endpoint achieves a p99 latency of < 20ms while performantly transforming data on-the-fly and handling scale equivalent to 150M/hr across all sidecars.
- Led technical upgrades (e.g., Node.js, Next.js), significantly reducing tech debt and improving performance/security.
- Improved developer productivity by implementing local authentication provider(keycloak) that is plug-and-play with the production setup (Okta)
- Implemented a service status endpoint across Klarna teams to enhance system monitoring and visibility.
- Ensured PII compliance via sensitive data validation rules across all core entities of our core backend.
- Delivered a new service for automated PII analysis and anonymization. Built an easy-to-use API integrating Microsoft Presidio to enable efficient and secure handling of sensitive data company-wide.

Software Engineer | Soostone | USA (Remote) | June 2020 – November 2022

- Spearheaded feature development across the frontend and backend of the core product.
- Significantly improved customer support efficiency by implementing a targeted permission group and enhanced user management/monetization through Stripe API and a paywall.
- Contributed to infrastructure automation with Terraform and optimized critical backend services, resulting in a 50% decrease in Lambda cold-start times.

Software Developer | Innology | Ankara, Turkey | October 2019 – June 2020

- Integrated a new payment provider into an existing API and created comprehensive documentation.
- Developed Go microservices for a taxi ride-share ledger, automating daily payment report generation.
- Contributed to a React/Typescript dashboard (using Mapbox) for Hop! Scooter, providing real-time scooter management tools for support and logistics (ride control, status, QR scan).

Education

Bachelor's Degree, Information Systems and Technologies | Bilkent University | Ankara, Turkey | 2016-2020

- Relevant Coursework: Algorithms & Data Structures, Database Systems, Software Engineering, Web Development, Cloud Computing
- Senior Project: "Web-based Distributed Ray Tracing Rendering System (DRaycer)"

Projects

Web-based Distributed Ray Tracing Rendering System | [Project on Faculty Website](#)

- Best Senior Project award
- Users will be able to render their 3D models to produce realistic rendering effects by using Ray Tracing. Considering the slow and capital heavy performance of Ray Tracing algorithms, DRaycer solves this with the power of client-side programming and distributed systems.

Performant Leaderboard API | [A leaderboard API made using Go, Mongo and Redis.](#)

- A game leaderboard implemented in Golang, Redis, and MongoDB. Includes general and country-based ranking with Redis Sorted Sets, MongoDB as a persistent database, and password hash encryption with JWT authentication.

Languages

- Turkish: Native
- English: Fluent
- Italian: Basic