

Kasper van 't Veer

Software Engineer

Personal Info

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Location	Amsterdam, NL

Technologies

Development

Node.js, Golang, JavaScript/TypeScript, Java, React, Next.js, Python

Ops

AWS, Kubernetes, Docker, Terraform, GCP, Cloudformation, CI/CD

Databases

SQL, DynamoDB, Redis, MongoDB

Test automation

Jest, JUnit, React component testing, Microservice integration testing

Skills

- Cloud-native & serverless architecture
- High availability & scalability
- Cost optimization of cloud systems
- Automated testing
- Maintaining legacy systems
- Developer experience
- Improving code maintainability
- API Design
- Global remote teamwork

Education

BSc Computer Science (2013)
University of Amsterdam

Certifications

AWS Certified
Solutions Architect
Associate (2022)



Seasoned full-stack engineer with 10 years' experience across backend, full-stack, and cloud architecture roles. 5 years' experience working remotely. Comprehensive know-how of all aspects of the software development lifecycle, from concept to development, automated testing, delivery and long-term maintenance.

Experience

Software Engineering Consultant 2021 - present *Clevertech (US - Remote)*

- Developed **Ethereum** snapshotting and token exchange features for a Layer 2 decentralized blockchain platform, using **Golang** and **Solidity**
- Modernized a legacy Pug/NodeJS 0.x monolith into **NodeJS 14 Kubernetes** microservices, using server-side rendered **Next.js React**
- Simplified maintenance and deployments of many Node.js **AWS** microservices by creating internal **DevOps** tooling to standardize projects into several reusable infrastructure as code templates
- Refactored and **Dockerized** an open-source **Golang** application and its buildchain, allowing contributors to set up and contribute within minutes, instead of multiple days.
- Managed **Terraform** templates for continuous multi-cloud deployments to **AWS** and **GCP**
- Provided technical consultancy to clients' teams and managers, identifying key infrastructural areas of improvement, drafting design solutions, and establishing long-term quality standards

Platform Engineer 2019 - 2021 *Redwood Logistics (US - Remote)*

- Lead the core backend team in the architecture and development of a multi-award-winning **Serverless** logistics automation platform on **AWS** processing millions of calls per day, supporting automatic creation of single-tenancy environments for each client through **AWS Cloudformation**
- Developed real-time monitoring and data visualization **React** components and **Redux** sagas using **WebSockets**, optimized to handle thousands of results per second on low-powered devices
- Eliminated outages from **SQS** overpulling by developing a custom, dynamically configurable priority queueing solution using **DynamoDB** to manage **AWS Lambda** concurrency at scale
- Rewrote a central **NodeJS** job orchestration microservice, resulting in a 30% reduction in operating costs, and a 70% reduction in source code
- Optimized and parallelized a legacy data aggregation pipeline using concurrent, custom written **NodeJS** streams, resulting in a 4x performance increase and a 20% reduction in operating costs
- Created an automated **integration testing** suite to an existing serverless backend, testing against isolated **AWS** infrastructure identical to production, reducing production bug reports by 80%
- Increased productivity and reduced delivery time across several teams by establishing code maintainability and testing **best practices** through workshops and DX improvements

Software Engineer 2017 - 2019 *BrainsFirst (Netherlands - Remote)*

- Lead a three-person team developing a data-driven cognitive assessment platform used by multinational companies for talent acquisition, using **JavaScript/React, Java/Spring, MySQL, AWS**
- Developed **React** components for visualizing interactive charts, graphs and tables using **D3.js**
- Revamped a manually managed monolith system into a **Dockerized** cloud-native **AWS** app with full CI/CD and autoscaling, using **ECS, S3, SQS, and CodeBuild/CodePipeline/CodeDeploy**
- Transformed a legacy metrics dashboard into **React/Redux** using a custom component library, resulting in a 60% reduction in source code and an 40% reduction in average render times
- Resolved **MySQL** performance issues by reworking the database schema and its indexes
- Added unit and integration testing to a previously untested **Java/Spring** codebase using **JUnit**, resulting in a reduction of critical issues reaching the production environment

Full-Stack Software Developer 2013 - 2017 *Independent (Netherlands)*

- Built a **JavaScript/NodeJS/AWS/MySQL** system for collecting geographic data about water contamination, utilizing a real-time interactive **LeafletJS** map
- Maintained a **Java/MySQL** primary school comparison tool that aggregates government statistics to provide a search engine and time-series data
- Built a **Python/AWS/MySQL** platform for transcoding and analyzing geographic data of flora and fauna observations
- Built **JavaScript/jQuery/PHP/MySQL** platform to compare and rate project proposals for improving sightseeing experiences for the Royal Dutch Tourist Association
- Single-handedly built an **Unreal Engine 4** VR environment using a custom infinite walking system and custom **C++** drivers for real-time interfacing with analog biometrics systems