



Theo van Oostrum

Senior Tech Lead

AI, Architecture and DevOps

3 december 1982

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github.com/vanoostrum
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Tech Skills

LLM APIs	Generative AI
AI-assisted development	Python
TypeScript	Node.js
Architecture	REST
GraphQL	FastAPI
NestJS	Spring Boot
OAuth2	OIDC
JWT	OpenAPI
Kubernetes	Docker
GitLab CI	GitHub Actions
Jenkins	AWS
GCP	SonarQube
Sentry	Elastic

Summary

Senior Tech Lead with 18 years of professional software development experience, including 9 years as Tech Lead. Experienced in coaching software developers and technical teams, software architecture, secure API design, cloud-native platforms and DevOps. Experience with generative AI, LLM APIs in production applications and creating AI-assisted development workflows. Experience in improving technical teams' workflows and engineering practices through technical leadership, Scrum and Product Ownership. Master's degree in Content & Knowledge Engineering and Bachelor's degree in Computer Science.

Experience

AI / LLM Experience

- Hands-on implementation of LLM API integrations in production applications.
- AI-generated website structure, design and content for businesses.
- LLM-assisted automated valuation processes for real estate portfolios.
- Set up AI-assisted software development workflows.
- Coaching teams in AI-supported development practices.

Senior Software Developer @ VodafoneZiggo

sept 2025 - present

- Set up AI development workflows with Project rules and GitLab Duo Reviews
- API architecture design and implementation with GraphQL
- Managing GitLab CI/CD with audit, linting, SonarQube and Firebase deployments.
- Planning roadmap and user stories
- Development of the Vodafone & Ziggo App
- Implementing Firebase Analytics, Salesforce integration and Adyen integration.

Tech Lead @ Envalue Real Estate

oct 2024 - sept 2025

- Development of a client portal for managing real estate portfolios and automated valuation processes with help of LLM APIs.
- Coaching a team of software developers including senior engineers and data analysts with AI development workflows.
- Design and implementation of a secure software architecture: OAuth2/OIDC authentication and authorization.
- Implemented and managed infrastructure with Docker and Google Cloud Kubernetes (GKE).
- Set up CI/CD Pipelines with GitHub Actions.
- Managing large amounts of real estate data with BigQuery.

Senior Software Developer @ Kate Innovations

june 2024 - oct 2024

- Development of a Python FastAPI REST service for collecting data points from multiple sources for the real estate market
- Training and onboarding a senior software developer
- Architecture design and restructuring existing code.
- Code optimizations by using asynchronous execution.

Technical Leadership

Developer Coaching

Architecture Guidance

Scrum

Product Ownership

Tech Lead @ xel

june 2016 - june 2024

- Technical leadership of a software development team, including senior developers and tech leads. Coaching on architecture, security practices and technical decisions.
- Product Owner, Scrum Master and project management responsibilities
- Development of an LLM powered website generator using LLM APIs to construct website structure, UX design and copy using industry standard UX guidelines. (2021 - 2024)
- Secure microservices integration, OAuth2/OIDC Authentication Server and Client implementation with SSO and Auth0.
- Setup CI/CD with Jenkins, GitLab CI, Docker and AWS with build, integration test, performance test and deployment phases. Secret management with Vault, secure networking with WireGuard
- Frontend development with React / React Native.
- Backend API development with Node.js, Swift Vapor and GraphQL
- API Integrations with REST and RabbitMQ

Medior Java Developer @ Bol.com

feb 2013 - june 2016

- Supporting Software architects and contributing to architectural decisions.
- Backend and Frontend development with Java Spring.
- Development of microservices Integration and performance tests and CI Pipelines for microservices using Java, Cucumber, Scala Gatling and Jenkins.

Visiting Research Scholar @ ICS University of California, Irvine

feb 2009 - oct 2009

- Thesis project for Master Content and Knowledge Engineering
- Research on distributed software development
- Statistical analysis of case data and reporting of findings in Thesis

Education

Master Content and Knowledge Engineering,
Fac. Information Science

Universiteit Utrecht
2007 - 2010

Bachelor of Science In Computer Science

Universiteit Utrecht
2002 - 2007