Sander Kiloman

Senior / Lead Software Engineer | C# / .NET & Architecture | ex-Microsoft, former CTO

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Senior/lead engineer with 20+ years in backend development, distributed systems and software architecture. Former startup CTO: led four engineers and delivered an AI recruitment platform to production. Built systems with C#/.NET, Azure/AWS and event-driven messaging, including PSTN tooling for Microsoft Teams and Skype.

CORE EXPERTISE

Backend & architecture: C#, .NET / ASP.NET Core, EF Core, REST / OpenAPI, DDD, Onion Architecture, microservices

Data & messaging: PostgreSQL, SQL Server, MySQL, RabbitMQ / AMQP, Kafka

Cloud & delivery: Azure, AWS, Docker, Kubernetes, Docker Swarm, CI/CD, Linux, Terraform / IaC

Frontend & AI: TypeScript, Node.js, React, Angular, PHP / Laravel, OpenAI API, Semantic Kernel, Azure Document Intelligence, AI coding agents

PROFESSIONAL EXPERIENCE

Bootup OÜ — Founder & Independent Software Engineer | Feb 2021–Present | Estonia

- Run an independent software company for freelance projects and product prototypes, including architecture, implementation and private-cloud deployment.
- Developing Ruhta, a personal finance manager prototype, with AI-assisted financial data workflows.
- Built an AI-based bookmark manager for Firefox, Chrome and Edge to categorize and organize saved links.

Tech: C#/.NET, TypeScript, PHP, OpenCode, OpenRouter, DeepSeek, GitLab, Cloudflare, Terraform, private cloud VMs

Osavus Technology OÜ / Osavus Holding Ltd — CTO | 2023–2025 | Estonia / UAE / USA

- Led a team of four engineers from initial architecture through the production release of an AI-based recruitment platform.
- Developed CV extraction and candidate screening workflows with OpenAI APIs, Semantic Kernel and Azure Document Intelligence. The product aimed to shorten applicant reviews from days or weeks to hours or minutes.
- Designed the .NET backend and asynchronous processing with PostgreSQL and RabbitMQ; led work on Azure infrastructure, CI/CD and Angular/React development.

Tech: C#, .NET, OpenAI API, Azure AI Foundry, Semantic Kernel, Document Intelligence, RabbitMQ, PostgreSQL, Docker, Kubernetes, Azure DevOps

Inex One (AB Leverache) — Senior Software Engineer (Contract) | 2022 | Stockholm

Worked on a B2B expert-network aggregation and expert-call platform, building TypeScript/Node.js backend and React frontend features for expert discovery and call management. Deployed on AWS.

Microsoft — Senior Software Engineer | 2020–2021 | Tallinn

- Developed PSTN call routing, testing and monitoring tools for Microsoft Teams and Skype. The wider systems handled tens of millions of calls per month.
- Built shared framework components and defined REST API conventions for Operator Connect telecom partner integrations.
- Refactored PSTN management code toward DDD and Onion Architecture (.NET 5, C# 9), and introduced API documentation tooling.

Uptime — Senior Lead Software Engineer | 2019–2020 | Tallinn

Lead backend developer for MyDello, a global shipping platform. Worked on a 600+ endpoint REST API, event-driven services and automated CI/CD using .NET Core, EF Core, PostgreSQL, Docker and AWS.

BB Finance Group OÜ — Senior Software Engineer | 2018 | Tallinn

Built .NET Core microservices and managed Docker Swarm infrastructure with secured service communication and automated, branch-based environments. Provisioning a new API service, database and subdomain took about 15 minutes. Introduced Scrum practices.

Internet Group Finland OY — Senior Software Engineer | 2016–2018 | Helsinki

Lead backend developer for Dynamely, a campaign-management platform spanning Google Ads, Facebook, Instagram and Messenger. Introduced automated testing, CI/CD and Scrum practices using PHP, Laravel and MySQL.

Bigbank AS — Senior Software Engineer | 2014–2015 | Tallinn

Helped lead the new API team, building shared service libraries and REST conventions, request replay/mocking, and logging with sensitive-data masking. Also served as company-wide Development Competency Lead and team Scrum Master.

EARLIER EXPERIENCE

Viocorp International Ltd — Senior Software Engineer | 2013–2014 | Sydney

Developed a video-streaming platform for Australia and Southeast Asia; added core unit tests and refactored PHP/LAMP and SQL Server code.

REBORN — Software Engineer | 2013 | Sydney

Built client-facing digital products at a Sydney agency, primarily an HTML5 iPad application for Boehringer Ingelheim.

MYJAR IT OÜ (formerly TxtLoan Ltd) — Software Engineer | 2011–2013 | Tallinn

Lead developer on a backend rewrite. Added 2,000+ unit and integration tests and a customer-account timeline tool for investigating and testing loan and repayment schedules.

Mobile Interactive Group Ltd — Software Engineer | 2010 | London

Developed bidirectional MMS routing software for bulk consumer messaging.

Design Portfolio — Software Engineer | 2010 | London

Elion Enterprises Ltd (now Telia Eesti AS) — Software Engineer | 2006–2008 | Tallinn

Led development of real-time IPTV viewing analytics; also built distributed Full-HD video delivery and digital TV photo-sharing services using PHP, MySQL Cluster and Linux.

AS DotCom — Software Engineer | 2000–2003 | Tartu

Developed Cerebella, a custom object-oriented PHP web framework and ORM, for Estonian business websites and applications.

EDUCATION

Estonian Business School | Miina Härma Gümnaasium

MORE SKILLS — ADDITIONAL AND HISTORICAL

Languages, web & UI Erlang; Java, JSP and Servlets; XML/XSL/XSLT; regular expressions; CSS, SCSS, Sass; XHTML Strict; Bootstrap, Tailwind, Bulma, Material Design; responsive layouts; Prototype.js, jQuery; service workers; SPA development; web engines, custom CMS, Strapi, WordPress; SEO, Facebook Ads, Google Ads; MQL4/5; UTF-8/BOM and localization (.po/.pot).

Data & integrations Oracle 9i (certification); Cosmos DB, MongoDB; document and object databases; InnoDB, Sybase (limited); SQLite, ANSI SQL; indexing and query optimization, SQL execution plans, stored procedures, triggers; Excel macros; X-tee/X-Road (WSDL); Stripe payments, UK BACS transfers; SharePoint.

Infrastructure & delivery Bash, PowerShell, ExpectScript; Cloud Functions/serverless; IaC; TeamCity, Azure DevOps, Azure Pipelines, Docker Registry, GitHub Actions; blue-green/canary and incremental deployments; feature flags; Cron, Quartz, Hangfire; Apache HTTP Server, NGINX, reverse proxies, Traefik; SELinux; Debian, Fedora, Ubuntu, Arch; POSIX tools; SSH, tunneling, iptables, subnets; LDAP; Postfix, ClamAV, Sendmail, SquirrelMail, Sieve; ESMTP, Telnet, FTP/SFTP, NFS, rsync, Samba.

Testing, security & monitoring Cypress, Playwright, Puppeteer, Selenium; PHPUnit, xUnit, Moq, Fluent Assertions; SonarQube, quality gates, cyclomatic complexity; pentesting (Clarified Security web pentesting certificate); A/B testing; OpenTelemetry, ELK, Grafana, Application Insights, Fluentd, syslog; Azure Identity, JWT, RBAC, OBAC, OAuth, Google OAuth, SSL, CORS, HTTP.

Tools & working practices Jira/JQL, Confluence, Atlassian tools, ServiceDesk; Slack, Fleep, Teams; Postman, Bruno; Git, Subversion; Vim, Screen, Eclipse, PhpStorm, Rider, Visual Studio, DataGrip, SQL Server Management Studio, DBeaver, HeidiSQL, MySQL CLI, psql; Scrum, Agile, Scrum Master, Scrum of Scrums, retrospectives, project management; Clean Code, Fowler patterns, YAGNI, DRY; parallelism, async/sync, thread safety, PRD-s, Technical Specs, UML, FlowCharts, Use Case diagrams.

Design, media & hardware Adobe Photoshop, Figma; IPTV and set-top box software (Amino, Motorola); RTP; Web3 client-side window manager; computer hardware and networking; Raspberry Pi and Arduino robotics; JavaScript/Canvas visualization: analytics, finance and statistics charts, heatmaps and Plotr.