

Kacper Frysztak

Senior Software Engineer | Full Stack | B2B, Remote

Senior full-stack engineer with 11 years of experience building web and mobile products with React, Angular and Node.js, plus deep micro-frontend experience. Recent work adds Python and Java event-driven microservices on AWS and Kubernetes. Works AI-first, directing coding agents while owning design, review and production validation. Former tech lead of about 7 developers.

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SKILLS

Programming	TypeScript, JavaScript, Python, Java, SQL, HTML/CSS
Architecture	Microservices, Event-Driven Architecture, Micro-frontends, Module Federation, single-spa, Serverless
Frontend	React, Redux, Angular, RxJS, NgRx, Vue.js, Next.js, React Native, Tailwind, Web Components
Backend, APIs	Node.js, NestJS, Express, FastAPI, Spring Boot, GraphQL, Apollo, REST
Messaging, data	Apache Kafka, AWS SQS/SNS, PostgreSQL, MongoDB, DynamoDB, Redis, Prisma, S3
Cloud, DevOps	AWS, Lambda, Kubernetes, Helm, Docker, Terraform, GitHub Actions, Jenkins, CI/CD
Quality, ops	Playwright, Jest, Vitest, pytest, Prometheus, Coralogix, PagerDuty
Leadership	Technical Leadership, Mentoring, Code Reviews, Delivery Planning, Scrum
AI	Claude Code, AI Coding Agents, Multi-Agent Workflows, Agent Skills, Automated Routines

WORK EXPERIENCE

Senior Software Engineer | Windward (Maritime AI) *06/2026 – Present | Remote*

Event-driven platform tracking container shipments worldwide: Python, Java and Node.js microservices with React micro-frontends on AWS.

- Delivered full-stack features: a **React micro-frontend (Module Federation)** behind feature flags, **GraphQL** mutations and permissions in **TypeScript on Node.js**, and late-arriving data handling across about **9 Java, Python and TypeScript services**.
- Designed, built and operate a production **Python service (FastAPI, asyncio, SQS, Kafka)**, deployed on **Kubernetes** with Helm and Jenkins CD, that ingests tracking events directly from an ocean carrier. Took it from prototype through **shadow mode** to a tested production rollout in about 6 weeks, then reused it as the base for the next carrier integration.
- Work **AI-first**, directing coding agents through implementation and validating their output with replay tests and shadow rollouts.
- Built a **test harness that replays production data** to compare data sources event by event, validating normalization of event codes, time zones, UN/LOCODEs and ISO container types.
- Root-caused production incidents, including a message-serialization bug, reconciliation logic deleting valid events and Kubernetes liveness failures from CPU-heavy processing. Part of the on-call rotation.
- Led a **data-provider migration across about 10 microservices** (Java, Python, infrastructure as code, Prometheus alerting), sizing capacity from a gradual production ramp-up and surfacing silent failures at capacity limits.
- Improved the reliability of a browser-automation service with a **Redis cache shared between pods**, rate limiting, **circuit breakers**, retries and a fix for thread-pool starvation.

Senior Software Engineer | Wavemaker / Choreograph *06/2022 – 06/2026 | Hybrid, Warsaw*

Global media agency group delivering data-driven marketing and media platforms.

- One of the key engineers in the department's frontend group, developing a large-scale platform built on **about 30 micro-frontends** using **single-spa**, owning 5 of them end to end in **Angular and React** and contributing to the core shell application.
- Designed a **frontend API layer** defining the contracts between the shell application and the micro-frontends.
- Co-built a **design system** of framework-agnostic UI libraries as **Web Components with Stencil**, consumed from Angular, React and Vue.js.
- Led the end-to-end testing migration from Serenity/JS to **Playwright**, delivering faster, less flaky runs, better reporting and easier onboarding for testers.
- Responsible for the **Node.js** authentication and authorization service.

Tech Lead / Senior Software Engineer | Lifebonus GmbH *12/2019 – 05/2022 | Remote*

Health and wellbeing tech company building mobile apps and digital services.

- Provided technical leadership for a team of **about 7 developers**: planning, code reviews, mentoring and quality gates.
- Led development of **React Native** mobile applications in the wellbeing domain, supporting training and care for users with health conditions.
- Delivered a serverless backend with **AWS Lambda, GraphQL and DynamoDB**, plus Cognito, SNS, Pinpoint, CloudWatch and X-Ray.
- Owned cloud infrastructure and deployments with **Terraform**, including reusable modules.

Software Engineer | Immomio GmbH *01/2018 – 11/2019 | Remote*

PropTech platform digitizing real-estate rental processes for landlords and tenants.

- Developed a real-estate rental platform with **Angular, Node.js and GraphQL**, optimizing performance of a complex UI with large datasets.
- Implemented integrations with external services, including **Stripe** and advertising providers.

Software Engineer | Coresystems AG *02/2016 – 01/2018 | Remote*

Enterprise field-service and ERP software provider for technician workflows and operations.

- Delivered field-service and ERP features with **AngularJS and Node.js**: warehouse modules, service calls and technician workflows.
- Built complex UI components, including **map views** and **multi-technician scheduling**, and improved UX for large datasets.
- Implemented deep UI and behavior customization for enterprise clients, and took part in platform migrations and technical upgrades.

JavaScript Developer | Digimonkeys *03/2015 – 02/2016 | Remote*

Software house delivering custom web projects for various clients.

- Delivered client projects with **React**, vanilla JavaScript, jQuery, HTML5 and CSS3, including responsive layouts and reusable UI patterns.
- Worked directly with designers and stakeholders to align implementation with business and UX requirements.

FREELANCE AND SIDE PROJECTS

- **DiagnoHub, vehicle inspection station software (01/2026 – 05/2026):** offline-first web and desktop app, built solo and AI-first with coding agents. **NestJS, Prisma**, multi-tenant PostgreSQL with row-level security, **Angular, Electron**, outbox-based cloud sync, role-based access, S3-compatible photo storage and CI with Playwright end-to-end tests.
- **KMWE, drilling tool design platform (01/2025 – 12/2025):** commercial platform in production, built in a team of 3, for configuring and ordering custom tools, with a reusable model that unifies multiple drill types into one configurable system. **Next.js, NestJS**, Sanity CMS, Auth0, Postmark.
- **Scandit, SDK sample applications (12/2019 – 12/2022):** QR and barcode, OCR, ID and driver's license scanning samples across Ionic, **Vue.js, Angular, React and React Native**, focused on rapid prototyping and cross-platform SDK integration.
- **WebAnywhere, CMS and website generator for schools (11/2019 – 12/2021):** led architecture review and refactoring of a configurable **Angular** product used by dozens of institutions. Built a **WebRTC** video chat tool.
- **Kosmeteczka, booking marketplace (10/2017 – 08/2019):** co-created and delivered the full product connecting beauticians with clients, including calendar scheduling, search, map discovery (OpenStreetMap) and SMS and email notifications. **React, Next.js, Express, MongoDB**, DigitalOcean, GoCD.
- **VoteChain, blockchain voting system (03/2019 – 04/2019):** Won **3rd place** in a contest, building as a team under a tight deadline. Secure voting with transparent, tamper-resistant vote verification, using **Solidity** smart contracts, **web3.js** and an Angular UI.

EDUCATION

Master's degree, European Studies/Civilization
Cracow University of Economics (2007–2012)

Master's degree, History
Jagiellonian University (2010–2012)

LANGUAGES

Polish: native
English: C2
German: elementary