

GREGORY KOLENS

Senior / Lead Software Engineer | AI Platform & Full-Stack

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Professional Summary

Software engineer and technical lead with 10+ years of experience in enterprise applications, frontend architecture and full-stack development. Builds AI products and developer tools using TypeScript, React and Node.js. Experience spans insurance, banking, AI-assisted testing and Office automation.

Technical Skills

Frontend: React, TypeScript, JavaScript, Next.js, React Native, Redux Toolkit, RTK Query, Nx, Module Federation

Backend and Cloud: Node.js, REST, OpenAPI, Java, Spring Boot, PostgreSQL, Cloudflare, Azure, Docker

AI and Quality: LLM integrations, Model Context Protocol (MCP), Vercel AI SDK, Langfuse, Playwright, Jest, React Testing Library, OAuth 2.0, OpenID Connect

Professional Experience

Kooperativa pojišťovna (VIG)

Frontend Developer / Full-Stack Developer | Aug 2023 - Present | Concurrent role

- Designed the React application architecture for the Neuron Policy domain from the start, working in a small team on insurance-contract lifecycle management for Kooperativa and ČPP.
- Developed policy search, contract details and cancellation workflows, including financial settlement, signing, access controls and business validations.
- Built Tasklist micro-frontends with Module Federation and integrated generated RTK Query clients with OpenAPI contracts. Delivered postal tracking and communication features across React and Java/Spring Boot services.

PwC

Senior Technical Lead, AI Engineer | Oct 2021 - Present | Current title since Jan 2022

- Lead engineering across financial, tax and AI products, including a React and Nx platform with 21 AI micro-frontends.
- Created and led Specwright, an AI-assisted testing framework combining source-code analysis, browser automation and LLM integrations to generate deterministic Playwright tests; built MCP, CLI and Electron interfaces.
- Principal developer of an AI-powered Excel and PowerPoint add-in using Office.js for workbook automation, batch processing, image-to-table workflows and enterprise authentication.
- Contributed to React 19 migration, shared single sign-on and testing infrastructure; advised teams on Python, FastAPI and retrieval-augmented generation (RAG) architectures.

Earlier Professional Experience

Shoptet

Senior Software Engineer | Nov 2020 - Oct 2021

- Led frontend modernisation with React and TypeScript; introduced Jest testing, reusable components and engineer mentoring.

Creative Dock / Raiffeisen Bank

Senior Frontend Engineer | Apr 2020 - Nov 2020

- Developed a production mobile-banking application using React Native, Redux and TypeScript.

Home Credit International / Velvon

Senior Frontend Engineer | Oct 2018 - Feb 2020

- Led frontend development of a banking and call-centre platform, including architecture and reusable React components.

DHL IT Services

Senior Software Engineer | Jul 2017 - Sep 2018

- Built internal task-monitoring applications using React, Redux and TypeScript.

NEORIS / CEMEX

Senior Frontend Developer, Team Lead | Jan 2017 - Jul 2017

- Led a frontend team, coordinated technical decisions and aligned delivery with product owners.

Kesso.cz

Senior Software Engineer | Jan 2013 - Jan 2017

- Delivered full-stack web products using JavaScript, PHP, WordPress and Laravel.

Selected Side Projects

Dealyv - AI Real Estate Platform. Side project. Build lead-qualification and follow-up workflows with TypeScript, Next.js, Vercel AI SDK, Langfuse, Cloudflare Workers/Containers, tRPC and PostgreSQL (Neon).

Hey Foods - AI Customer Feedback. Built an LLM-based system to analyse restaurant reviews and identify recurring complaints and operational themes.

Honeywell Safety Console. Developed a frontend/backend system to collect data from noise-cancelling headphones and monitor industrial workers' hearing load. ReactJS, NodeJS, TypeScript, Redux, Webpack, Google Cloud.

Honeywell PNP. Contributed mobile development and mentoring for headphone data synchronisation and collection. React Native, Redux, Google Cloud, REST API.

Education

Yandex Practicum | Data Science Extended | Sep 2024 - 2025 (completed)

VSO in Prague | IT in Tourism | 2014 - 2015

CVUT in Prague | IT Development | 2010 - 2013

Languages

Russian: Native | English: B2 | Czech: B2