



# Emre Koc

## Full Stack Developer

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I'm a Senior Full Stack Developer with nearly 20 years of experience creating web applications. Specialized in TypeScript, React, and Node.js, I focus on building user-first, scalable, and maintainable products.

I have a consistent record of rapidly delivering high quality code and valuable consultancy on processes and structure, as well as the ability to manage teams of developers. My work is both creative and methodical, showcasing my passion for programming.

## <Work Experience />

### Head of Engineering

#### March 2025 | Krobar.ai

- Developed AI-powered modeling and forecasting application in React
- Integrated OpenAI assistants to help users build models, interpret results, and generate reports
- Architected and implemented backend services in Node.js for streaming AI interactions and data processing
- Integrated sophisticated Monte Carlo simulation engine for accurate forecasting and scenario modeling
- Accelerated development by making implementation-level design decisions while staying consistent with design guidelines
- Collaborated closely with design, product, and client teams to align technical solutions with business needs

#### June 2022 | Kromatic

- Developed 6 interactive white-label business innovation training applications in React
- Led contracted development team of 5 for building enterprise-level learning management system
- Standardized code style and architecture of contractor-built applications, improving maintainability and consistency across projects
- Architected content management system where database content could be extended and customized while preserving the original data
- Developed Monte Carlo simulation scripts in Node.js to calculate scenario-based predictions
- Packaged application deliverables in Docker, supporting both Heroku and complex client-specific on-premises deployments
- Implemented Playwright automated end-to-end tests, covering role based access control

## Senior Full Stack Developer

### June 2020 | NodeRelate

- Developed frontend of enterprise-level data governance application in React
- Implemented complex graph data visualizations with D3.js
- Built backend services in Node.js for Azure AD authentication and Postgres database connection
- Built automation tools for generating API endpoints for Azure Functions based on routines exported from Postgres database

### February 2020 | Iglu

- Developed frontend of internal portal for 250 employees in React
- Implemented invoicing and reporting, linking to Xero accounting software
- Mentored juniors in web development on weekly basis

### June 2019 | SICCODE.com

- Expanded and restructured existing PHP web application
- Optimized code for load speeds, targeting page loads under 100ms
- Implemented extensive SEO improvements using microdata and JSON-LD, based on Schema.org's vocabulary

## Digital Lead

### June 2009 | Just

- Progressed from Flash Developer to Full Stack Developer to Digital Lead
- Lead of both frontend and backend teams up to a total of 10 developers, responsible for quality control of all deliverables
- Acted as bridge between project management and development team by handling all technical questions by project managers, clients and other agencies
- Mentored interns, junior and senior developers in all in-house used programming languages, frameworks and tools

## <Technical Knowledge />

**Extensive knowledge** of TypeScript, JavaScript, React, Node.js, Next.js, Jest, D3.js, Pixi.js, Three.js, Material UI, HTML, CSS, REST APIs, Data visualization, Generators

**Proficient** in Redux, Sequelize, Figma, Playwright, SQL, Sentry, Tailwind, Storybook, Swagger, Websockets, GraphQL, OpenAI, Azure, GitHub Actions, Heroku, Docker, Automation, Motion Design

## <Education />

Communication and Multimedia Design

2010 - 2013 | The Hague University of Applied Sciences

Bachelor of Information and Communication Technology

Mechanical Engineering

2007 - 2009 | Delft University of Technology