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 an 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 a 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 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 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 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

Developed frontend of enterprise-level data governance application in React

Implemented complex 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

⟨ 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