

BATUHAN DORUK OZTURK

Full-Stack Developer | Web3 & Blockchain

Istanbul, Turkey | +90 535 483 30 80 | batuhandoruk91@gmail.com

[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full-stack JavaScript/TypeScript developer with 5+ years of professional experience and a strong specialization in Web3 and blockchain development. Built and shipped 10+ production applications across DeFi, fund administration, HR SaaS, loyalty platforms, e-commerce, and education. Core expertise in Node.js, Next.js, and React, with hands-on experience in smart contract development and onchain fund lifecycle management. Resourceful across the stack, able to turn concepts into working features through a pragmatic, AI-augmented development workflow. Draws from over a decade of engineering experience to anticipate issues early and approach them from product, user, and technical angles.

TECHNICAL SKILLS

Core Stack: Next.js | Node | React | TypeScript | PostgreSQL | Viem | Wagmi | Solidity

Languages: TypeScript, JavaScript, Solidity, HTML, CSS/Sass, SQL

Backend: Node.js, Express, Koa, Next.js API Routes, REST APIs, RPCs, GraphQL/Apollo, WebSocket

Frontend: React, Next.js (Pages|App), TanStack (Query|Router|Start), Tailwind CSS, Material-UI, Headless UI, React Native, Expo

Blockchain & Web3: Solidity, Foundry, Hardhat, OpenZeppelin, Proxy Contracts (Beacon/Module patterns), Viem, Wagmi, Ethers, Privy, Alchemy, Safe, Paymaster, The Graph

Databases & ORMs: PostgreSQL, MySQL, MongoDB, Redis; Prisma, Sequelize, Mongoose

Cloud & DevOps: Vercel, Railway, Cloudflare, AWS S3, Garage, Supabase, Neon, Docker, VPS, Nginx

AI & Automation: Claude Code, Cursor, GitHub Copilot, Google Gemini AI

Other Tools & Integrations: Stripe, Google APIs (Calendar, Docs, Maps, Wallet), Apple Wallet, Sentry, Mixpanel, i18next, OpenAI API, Google Gemini AI, Resend, Telegram Bot API, JWT, Passport.js, NextAuth, SAML/SSO (Azure AD, OKTA), OAuth, Zod, bcrypt, Jest, Vitest, React Testing Library, Playwright

PROFESSIONAL EXPERIENCE

Full-Stack Web3 Developer

Jan 2024 – May 2026

Fume (via 5w155) | Remote

On-chain fund administration platform enabling crypto fund managers to create, operate, and report on tokenized investment vehicles across EVM chains (Ethereum, Arbitrum, Base, BSC).

- Designed and built **end-to-end transactional flows** that validate input, sign and dispatch write-contract calls, parse transaction receipts, and reconcile state back into PostgreSQL, covering signature, approval, deposit, and withdrawal paths across onchain and offchain steps.
- Architected a **multi-network, multi-wallet dApp** that routes each operation to the correct chain and wallet, handling EOA and smart-account paths, with paymaster-sponsored gas via ERC-4337.
- Built a unified **write-operation module** used across the app, handling network/wallet detection, smart-wallet compatibility checks, asynchronous **multi-owner smart wallet confirmation** flows, input validation, transaction lifecycle stages, and progress feedback in the UI.
- Read, analyzed, and contributed to **design decisions on the Solidity protocol**, running local experiments and branch modifications to validate proposals; contributed to gas optimization passes and implemented a **function-level onchain authorization system** controlled by wallet address, with matching admin settings UI.
- Implemented **subgraph indexing** for numerous events across multiple linked contracts and block ranges, cutting event query latency by up to 5x and unlocking near-real-time UI updates through query polling intervals.
- Implemented **NAV prediction and extrapolation** using linear, compound, geometric, and regression models, with charting layers that aggregate onchain event data and offchain database records into unified dashboards.
- Drove **production reliability and 3x page load improvements** through targeted caching, Next.js SSR/ISR, and continuous refinement of transaction and indexing flows guided by Sentry, Alchemy, and Vercel log analysis.

Full-Stack Developer

Jul 2022 – Dec 2023

5W155 | Remote

Delivered full-stack features across HR SaaS, multi-tenant loyalty, real estate, and mobile product lines.

- Architected a **configurable promotion and reward engine** for a multi-tenant loyalty platform, evaluating multiple criteria per individual cardholder (age, purchase frequency, birthday, card validity) with communication and offer workflows on a Koa 2 / MySQL API
- Integrated **Apple Wallet (PassKit) and Google Wallet** for digital loyalty cards, Stripe for merchant billing, **QR-code payment generation**, and SMS/email campaign dispatch; developed the React admin dashboard and the Expo mobile app (barcode-scan loyalty reader, OTP sign-in, profile screens).
- Built a **recruitment pipeline** with drag-and-drop status tracking, Google Calendar integration with auto-generated Meet links, and candidate CV generation via the Google Docs batch-update API for an HR & recruitment SaaS, alongside role/permission extensions, i18next localization, and Stripe billing maintenance.
- **Migrated a real estate quotation platform from Angular to React**, refactoring authentication and permissions, fixing price-formula bugs across property types, extending the PDFTron generation pipeline, and implementing a chatbot assistant.
- Built the main post feed with countdown timers and pause/resume tracking, settings, search, bookmarks, and animated components on a **React Native / Expo events and promotions mobile app** using NativeWind.

Junior Full-Stack Developer

Jun 2021 – Jul 2022

LaSoft Agency | Lviv, Ukraine

Built features across 6 client projects spanning education, marketing, e-commerce, and health sectors.

- Developed **interactive educational games** (jQuery) with multiple difficulty levels, custom Vimeo media players, and Stripe payment integration for Bluemanor Academy (K–8 education platform)
- Implemented **SSO/SAML authentication** (Azure AD, OKTA) and SEO optimization with Google structured data for Lessontrek (cybersecurity education SaaS)
- Built **live chat** (WebSocket), vendor search mechanics with **Mixpanel analytics**, and graphical dashboards across Vendorstan (marketing) and Protogetic (e-commerce) platforms
- Upgraded **Node.js v6 → v14** and refactored auth/authorization for role-based access on ALS-AID (medical mobile application)

PERSONAL PROJECTS

Real Estate Listing Aggregator | Next.js, Google Gemini AI, Chrome Extensions (MV3), Telegram Bot API | A listing aggregator with a Telegram bot intake pipeline, Google Gemini AI for structured field extraction, duplicate detection, a credits/tier system, and a Chrome Extension (MV3) for automated cross-posting with anti-duplicate detection.

Decentralized Lottery Protocol | Solidity, Foundry, OpenZeppelin, wagmi, viem | Solidity protocol (Governor + Lottery contracts) with fixed-fee entries, commission-based treasury sweeps, and winner selection via Chainlink VRF. Built the dApp frontend with wallet-connect flows and deployed on Arbitrum using Foundry.

EDUCATION

B.S. Civil Engineering

Graduated Aug 2015

Middle East Technical University (METU), Ankara, Turkey

5 years of post-graduation civil engineering and project administration experience (2016-2020), managing multi-site teams across Ukraine, Moldova, and Saudi Arabia.

ADDITIONAL

- **Languages:** English (fluent), Turkish (native)
- **Interests:** Swimming, Surfing, Diving, Chess, Pool, Board Games, Skiing, and numerous outdoor activities
- **References:** Pablo Pfister (CEO, 5w155), Marc Bickel (CTO, Fume) - contacts on request