

GÜLÇİN URAS

Frontend Engineer

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SUMMARY

Frontend engineer with five years building and owning React and Typescript applications on production, specialized in Web3 and financial interfaces. Led the development of Tinyman decentralized exchange as the sole frontend developer for almost 2 years, built and maintained its public open-source Typescript SDK. Shipped products across Algorand and Ethereum ecosystems. Prioritized maintainable frontend architecture, performance, testing and a seamless UX/UI.

EDUCATION

BSc Computer Science and Engineering

Sabancı University 2016 - 2021

Computer Science

Technische Universität Berlin 2020 - 2023

SKILLS

- **Languages & frameworks:** TypeScript, JavaScript, React, Next.js, Node.js, HTML5, CSS3
- **Multi-chain & web3** Algorand and EVM, Chainlink VRF 2.5, Manifold mint extensions, Solidity contract integration and ABI handling, WalletConnect v2, Pera/Defly/Lute connectors, IPFS via Pinata
- **Trading domain** Spot swap execution, Limit&DCA orders, partial fills and claims, order lifecycle and status derivation, AMM routing and multi-hop visualisation, price impact and slippage, fee models, liquidity pools, governance locking and voting power, staking and liquid staking, lending pools, APR/APY
- **Data & real-time** TanStack Query, REST, GraphQL + codegen, WebSocket and polling flows, TradingView Advanced Charts with streaming datafeeds, Zod, React Hook Form
- **Performance** Core Web Vitals, memoisation and re-render elimination, code splitting, IntersectionObserver lazy loading, CDN and edge caching
- **Styling & UI** Tailwind CSS, SCSS/Sass, Radix UI, design tokens, theming, mobile-first responsive layout, accessibility
- **Testing & tooling** Jest, Testing Library, Playwright visual regression testing, ESLint, Stylelint, Prettier, Husky, GitHub Actions, Sentry, Vite, Webpack

LANGUAGE

- Turkish (native)
- English (advanced)
- Spanish (beginner)

EXPERIENCE

Frontend Engineer

2024 – Present

Bakers Studio - Remote

- **Tinyman** - **React, Typescript**, algosdk, TradingView
 - Built and shipped **Limit and DCA (recurring) orders** end to end, from SDK utility functions of the order protocol and a user friendly UI to a protocol update mechanism.
 - Built **on-chain governance** features, SDK functions and the UI, with a locking&voting mechanism, enabling discounted fees on transactions to Tiny power holders.
 - Built trading charts for the whole application, by integrating **TradingView** Advanced Charts with a real-time streaming datafeed.
 - Implemented **liquid staking** features with a responsive UI and the supporting SDK functions, and wrote **unit tests** covering them.
 - Led the algosdk v2 to v3 migration across the web client and the public SDK, and **mentored** an intern for two months.
- **Silk** - **Next.JS, React, Typescript**, wagmi, viem, ethers
 - Built an on-chain dice experience for a Silk artist -Jack Butcher- **end to end**, from contract to interface: **authored a Manifold mint-extension contract** wired to **Chainlink VRF 2.5** for verifiable randomness, minted each rolled die face to the collector's wallet, and shipped a **burn-and-redeem** path exchanging a complete set of 6,666 faces for an exclusive silver die.
 - Own the frontend and the backend architecture behind it: a component system on **Radix UI** primitives with **Tailwind** and a CSS custom property theme layer - **accessible, mobile-first, cross-browser** - plus the **Node/Strapi 5** backend as sole engineer.
 - Decreased developer dependency by converting a **fully static page into a CMS based dynamic application** with a caching and revalidation architecture.
 - Cut media delivery weight 78% (74 GB/month to 16 GB) by migrating the library to object storage with **on-demand CDN resizing**, validated by a Playwright **visual regression** suite run against a pre-migration baseline before cutover.

SELECTED PROJECTS

- **Tinyman** - Algorand AMM DEX: spot swaps, limit and DCA orders, pools, governance, staking, analytics. Top contributor to the codebase.
- **Tinyman JS SDK** - open source · npm @tinymanorg/tinyman-js-sdk. Public protocol SDK consumed by third-party developers.
- **AlgoHub** - community-voted launchpad where projects raise funds after investor approval. Top 5 finalist, Algorand Build-A-Bull Hackathon.

Frontend Engineer

Hipo - Remote

2021 - 2024

- Implemented the Tinyman v2 user interface and built a guided , multi-step migration flow that moved users from v1 to v2 without disruption.
- Built Tinyman's **component system** using the company's in-house open-source component library React-UI-Toolkit.
- Built the core DeFi trading surfaces - swap, pools and liquidity provision, staking, farming, analytics, and portfolio in **React** and **Typescript** for a product serving 16,000+ monthly active users, integrating Pera, Defly, Lute and WalletConnect v2 wallet connectors.
- Co-maintained and implemented new features on @tinymanorg/tinyman-js-sdk, Tinyman's public Typescript SDK on npm, owning the governance, Folks Lending Pools and swap-router v3 integrations - contract state reads, return calculations, transaction generation with wrapper app opt-ins - plus a bigint safety migration and support for third-party developers integrating it.