

EDUCATION

- **TOBB Economy and Technology University** Ankara, Turkey
B.Sc in Industrial Engineering; GPA: 3 *Sep. 2020 – June. 2024 (expected)*

EXPERIENCE

- **InvestaLabs - Edu3Labs** March 2023 - August 2023
Mid Software Engineer
 - **Edu3Labs Protocols:** Spearheaded the development of smart contracts for the Edu3Labs protocols, focusing on robust functionality for admin panel integration and the NFT Marketplace. Proficiently coded in Solidity. As the Web3 lead of the project, achieved a remarkable contract score of 90.25/100 points through an audit conducted by Certik Audit Company.
 - **Edu3labs-Chain-Listener:** Developed a real-time data tracking solution for smart contracts, seamlessly integrated with a websocket provider, with seamless data insertion into AWS AuroraDB for efficient aggregation. Built using Express.js and TypeScript backend, employing meticulously designed async listeners that facilitated data retrieval at double the speed of prevalent wallet providers. Employed pm2 and expertly configured logging to attain seamless zero-downtime deployment. Deployed on AWS EC2.
 - **Edu3labs-Chain-Master:** Architected a meticulous block-by-block data tracking mechanism for smart contracts to support realtime listener. Implemented using Node.js and TypeScript backend on Cloudflare Workers, with seamless data insertion into AWS AuroraDB for efficient aggregation. Leveraging Cloudflare Workers, we achieved a remarkable performance boost of nearly %200 compared to conventional Lambda functions.
 - **Test Token Faucet:** Engineered a robust faucet system for our Test ERC20 token, complete with Twitter verification and Discord bot integration. The frontend, powered by Next.js, complemented the backend implemented using Cloudflare Workers to efficiently distribute tokens. The Discord bot was effectively deployed on AWS EC2, ensuring optimal performance.
 - **Frontend Advisory and Web3 Integration:** Offered valuable insights as a frontend consultant, contributing to the seamless integration of Web3 functionalities. Provided assistance in the utilization of Next.js and TypeScript for the frontend. Also contributed to designing an organized folder structure for the project, ensuring efficient development practices.
- **Scouthub** September 2022 - January 2023
Fullstack Software Engineer
 - **Next.js / React.js:** Utilized the cutting-edge Next.js framework, recognized for its industry-leading capabilities, to develop robust frontend solutions. Employed TypeScript and spearheaded a small team to achieve impactful outcomes. Leveraged Next.js's SSR/ISR features to optimize the codebase, and successfully crafted an analytics dashboard for the startup.
 - **Node.JS:** Drove backend development with Express.js, effectively delivering two critical services. One, dedicated to NFT and image processing, and the other catering to a new league API. Both services are actively operational in a production environment, backed by Amazon RDS for optimal performance.
 - **PHP:** Contributed to Scouthub's Opta backend system, a real-time football data platform, by developing crucial PHP endpoints. These additions enhanced the capabilities of the Opta system, further elevating the quality of provided services.
- **V1** August 2022 - December 2022
Fullstack Web3 Engineer
 - **Summary:** Built a versatile 1inch Aggregator-inspired DEX supporting ENS, NFT, and more.
 - **Frontend:** Next.js and TypeScript for frontend, along with tailwindcss for styling. Integrated Metamask and EIP-712 for secure authentication. Leveraged ethers.js for precise blockchain transactions.
 - **Solidity:** Smart contracts developed using latest Solidity with TypeScript via hardhat. Achieved substantial %30-60 gas optimization.
 - **Nest.js, Python:** Backend services with Nest.js (TypeScript) for web2 compatibility. Utilized FastAPI in Python for task automation.

• **Proofpublish**

December 2023 - January 2023

Software Project

- **Summary:** Developed the Proofpublish NFT marketplace platform for showcasing and selling publications. Led the system design and complete codebase development as per requirements.
- **System Design:** Crafted a system for the Minimum Viable Product, consisting of Frontend, Web2-Backend, Web3-Backend, Storage, and Content Security components.
- **Frontend:** Utilized Next.js with TypeScript for frontend development. Employed SASS and Tailwind for styling, and Ethers.js to interact with smart contracts. Implemented React context hooks, Metamask signatures, and Cookies for authentication, along with Next.js Middleware for routing operations.
- **Web2 Backend:** Opted for Firebase BaaS service for the Web2 backend, ensuring serverless architecture and efficient storage for metadata and extra content.
- **Web3 Backend:** Developed Smart Contracts using Solidity and Hardhat (with TypeScript). Created contracts for ERC1155 NFT standard and the Marketplace. Implemented comprehensive unit testing with Jest.
- **Content Storage and Security:** Leveraged IPFS for decentralized storage, with an added layer of security through IPFS encryption to maintain content privacy and integrity.

• **DataFlex**

June 2022 - December 2022

Software Project

- **Purpose:** Dedicated to delivering data automation solutions to companies and government entities.
- **Project 1: Blockchain Advertising Company:** Executed a robust project involving blockchain advertising firms. Leveraged Scrapy as a web scraper, FastAPI for efficient backend services, and Next.js for frontend development. Successfully managed four parallel tasks across four blockchain websites, ensuring real-time data extraction. Utilized Google Scheduler to maintain data freshness, achieving the remarkable feat of scraping 2k potential client records in just 30 seconds.
- **Project 2: Ankara Pharmacy Room (Government):** Pioneered a solution targeting illicit medicine sales on e-commerce platforms for a government initiative. Employed BS4+Threading for web scraping and applied the Jaro-Winkler distance algorithm for detecting product name alterations. Successfully scanned 30k medicines across eight websites within a mere 8 minutes, enhancing public safety and regulatory compliance.

PROGRAMMING SKILLS

- **Languages:** SQL, NoSQL, Python, Javascript, TypeScript, ReactJS, NextJS, Solidity, Go, Rust, AWS