**Mahmut Baran Turkmen**

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Greater London, United Kingdom

EMPLOYMENT

**Junior Front End Engineer**  **07/2023 – present**

*VIOOH (JCDecaux subsidiary)* | *React.js, TS, Redux, Jest, Storybook, BDD*

* Added the desired functionalities to the web UI which were given by the Product Manager
* Established and maintained a structured wiki for the team to motivate onboarding team members
* Developed 33% of the design system in Storybook by collaborating with the design team
* Improved the product’s delivery speed by 10% by fixing non-deterministic errors in the CI pipeline
* Increased the test coverage by 4% by writing unit tests with React Testing Library to strengthen confidence in the app
* Migrated JS React components to TS to boost robustness

**Blockchain Developer** *(Contractor)* **03/2022 – 09/2022**

*Ajinomoto Turkiye* | *JS, Jest, REST API, MVC, Swagger, TDD*

* Designed, coded, and hosted a REST API that stores data on IPFS and proof on an EVM-compatible blockchain network
* Composed user stories with the Product Manager and added integration tests with Jest
* Documented the built API endpoints using OpenAPI Specification to enhance developer experience for adjacent teams
* The project was successfully deployed to production

EDUCATION

**Durham University**  **09/2019 – 06/2022**   
*Bachelor of Science in Computer Science*

* **Modules:** Algorithms, Data Structures, Human-AI Interaction Design, Networks, Distributed Systems and Databases
* **Dissertation:** Universally Accessible Order Book Style Decentralised Exchange[**(paper)**](https://github.com/cjxe/on-chain-dex/blob/main/report/Project_Report.pdf)
* Course Representative

PROJECTS

**Transfer Coins**[**(project)**](https://transfer-coins.vercel.app/) | *React.js, Storybook, Figma, Tailwind CSS, PostgreSQL, Husky* **01/2023 – 06/2023**

* Designed home, authentication and dashboard pages using Figma[**(figma)**](https://www.figma.com/proto/nr1x8mEOF5t30K8d7PQnMb/Transfer-Coins?page-id=1%3A14&node-id=32%3A2515&viewport=-1836%2C278%2C0.13&scaling=scale-down-width&starting-point-node-id=198%3A6950&hide-ui=1)
* Coded the components using React.js, Next.js and Tailwind CSS, while isolating them with Storybook[**(storybook)**](https://cjxe.github.io/transfer-coins/)
* Enhanced the deployment success rate from 80% to 100% by integrating tests using Husky into Git hooks
* Modelled the database schema based on the requirements specification by utilising diagrams.net

**Decentralised Exchange**[**(project)**](https://github.com/cjxe/on-chain-dex)*(Bachelor’s Project)* | *JS, Solidity, Ethereum, Hardhat, Mocha* **12/2021 – 05/2022**

* Designed, coded, and hosted a central limit order book style decentralised exchange where all data is saved on-chain
* Designed a single-page website using Figma and turned it into code with HTML, CSS, and JavaScript
* Coded the business logic in Solidity and deployed the smart contracts on Ethereum Virtual Machines
* Wrote integration tests using Mocha with Hardhat to test order book scenarios and edge cases
* The next steps for the project are to run through a security audit and marketing

**Algorithmic Trading Bot**[**(project)**](https://www.linkedin.com/in/mahmut-baran-turkmen/overlay/experience/2018676959/multiple-media-viewer/?profileId=ACoAACSBY4sB9GB0Ng1SFps3b_bQeJq5gQops2c&treasuryMediaId=1635538735492) | *JS, Solidity, Dedicated Server* **08/2021 – 01/2022**

* Developed an algorithmic trading bot in JS that generated a profit of 13% with £15,000 by leveraging low-latency trading in EVM-compatible txpools
* Increased strategy success rate by 200% through rerouting transactions via our self-hosted full BSC node

ADDITIONAL SKILLS & INTERESTS

**Community Manager****02/2021 – 03/2022**

* Saved 1 person-hour per day while scaling a group from 750 to 4,000 members by utilising and building chatbots for our Telegram, Twitch, and Discord groups

TECHNICAL SKILLS

* **Languages:** JavaScript, TypeScript, Python, Solidity, bash, SQL, HTML, CSS
* **Frameworks:** Next.js, Express.js, Hardhat
* **Technologies:** React.js, Redux, Storybook, Tailwind CSS, MongoDB, MySQL
* **DevOps:** AWS, Git, Jest, GitHub Actions, Docker, Husky, ESLint, Swagger
* **Other:** Scrum, TDD, BDD, Figma