

# Mahmut Baran Turkmen

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Greater London, United Kingdom

## EMPLOYMENT

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### 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

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### 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](#))
- Course Representative

## PROJECTS

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**Transfer Coins** ([project](#)) | *React.js, Storybook, Figma, Tailwind CSS, PostgreSQL, Husky*

01/2023 – 06/2023

- Designed home, authentication and dashboard pages using Figma ([figma](#))
- Coded the components using React.js, Next.js and Tailwind CSS, while isolating them with Storybook ([storybook](#))
- 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](#)) (*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](#)) | *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

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### 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

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- **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