**Mahmut Baran Turkmen**

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Greater London, United Kingdom

SUMMARY

I am a recent Computer Science graduate from Durham University. During my studies and freelancing work experiences, I gained expertise in building responsive UIs, REST APIs, trading bots, chatbots and websites. These experiences include working both independently and within a team. Currently, I am learning new tools and concepts by building full stack projects!

EDUCATION

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

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

EXPERIENCE

**Blockchain Developer** *(Contractor)* **03/2022 – 03/2023**

*Ajinomoto Turkiye*

* Coded a REST API by following an **MVC** architectural pattern using the **Express.js** framework
* Introduced a coding standard using **ESLint** and **Prettier** to maintain a scalable codebase
* Composed user stories with clients and incorporated integration tests with **Jest**
* Documented the built API endpoints using **OpenAPI** Specification for future testing and improvements
* Asynchronously worked with two teams (the front end team and the SAP microservice team)

**Chatbot Developer**[**(project)**](https://www.linkedin.com/in/mahmut-baran-turkmen/overlay/experience/2018664862/multiple-media-viewer/?profileId=ACoAACSBY4sB9GB0Ng1SFps3b_bQeJq5gQops2c&treasuryMediaId=1635499006986)*(Contractor)* **07/2021 – 08/2021**

*PulseAIO*

* Boosted server activity by **15%** by coding a chatbot in **JavaScript** that assigns points to users based on their activity
* Integrated the **Cloud Firestore** database to store user activities and track prizes based on the given architectural design
* Established general **error handling** for various levels to track and prioritise errors

PROJECTS

**Transfer Coins**[**(project)**](https://transfer-coins.vercel.app/) *(Work in Progress)* **01/2023 – present**

* 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
* Currently working on deploying the web app on **AWS** by utilising **Terraform** and **GitHub Actions**

**Decentralised Exchange**[**(project)**](https://github.com/cjxe/on-chain-dex)*(Bachelor’s Project)* **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**
* Developed 14 integration tests using **Hardhat** to test order book scenarios

**Algorithmic Trading Bot**[**(project)**](https://www.linkedin.com/in/mahmut-baran-turkmen/overlay/experience/2018676959/multiple-media-viewer/?profileId=ACoAACSBY4sB9GB0Ng1SFps3b_bQeJq5gQops2c&treasuryMediaId=1635499014259) **08/2021 – 01/2022**

* Developed a **JavaScript** algorithmic trader that generated a profit of **13%** with £15,000 by implementing a given strategy
* Achieved a **200%** increase in the success rate of our strategy by renting a **dedicated server** to host our **EVM** full 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, Python, Rust, Solidity, Bash, SQL, HTML, CSS, OpenAPI
* **Frameworks:** Next.js, Express.js, Bootstrap, Hardhat
* **Technologies:** React.js, Storybook, Node.js, MongoDB, Cloud Firestore, Redis, MySQL, SQLite, Figma
* **DevOps:** Git, Terraform, Docker, Husky, GitHub Actions, Jest, Selenium, ESLint, Prettier, DigitalOcean, Vercel
* **Other:** AWS, Agile, Scrum, Kanban board, TDD