

Mahmut Baran Turkmen

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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](#))
- 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](#)) (*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](#)) (*Work in Progress*)

01/2023 – present

- Designed home, authentication and dashboard pages using **Figma**([figma](#))
- Currently coding 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
- Currently working on deploying the web app on **AWS** by utilising **Terraform** and **GitHub Actions**

Decentralised Exchange([project](#)) (*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](#))

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