

Mahmut Baran Turkmen

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SUMMARY

I am a recent Computer Science graduate from Durham University. During my studies and work experiences, I gained expertise in building responsive UIs, REST APIs, trading bots, chatbots and websites. Currently, I am seeking a full stack engineering role where I can collaborate with experienced professionals and apply my skills to new projects!

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, PostgreSQL, MongoDB, Cloud Firestore, Redis, MySQL, SQLite, Figma
- **DevOps:** Git, Jest, Mocha, Selenium, Terraform, Docker, Husky, GitHub Actions, ESLint, DigitalOcean
- **Other:** AWS, Agile, Scrum, TDD/BDD

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 | JS, Jest, REST API, MVC, OpenAPI

- 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 | JS, Cloud Firestore, Error handling

- 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](#)) | React.js, Storybook, Figma, Tailwind CSS, PostgreSQL, Husky

01/2023 – present

- 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
- Currently, modelling the database schema based on the requirements specification

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
- Developed 14 integration tests using Mocha with Hardhat to test order book scenarios

Algorithmic Trading Bot([project](#)) | JS, Cloud instance

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