

CEM RATIP

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Skills

Python | C# | Java | JavaScript | TypeScript | HTML | CSS | Node | React | Tailwind | Nest | MongoDB | Mongoose | MySQL | Heroku | Git
Frontend | Backend | Full-Stack | AWS EC2 | AWS Lambda | AWS S3 | AWS RDS | Android Studio | Unity 2D | Unit Testing | e2e Testing

Education

MSci Computer Science **King's College London** *Strand, London* **09/2021 - Current**

- First year module results: ELA (94%), FC1 (94%), CS1 (94%), IPP(88%), PPA (78%)

A Levels **Trinity School of John Whitgift** *Croydon, Surrey* **09/2019 - 07/2021**

- 4 A-Levels: Maths (A*), Further Maths (A*), Computer Science (A*), Economics (A)

iGCSEs **Royal Russell School** *Croydon, Surrey* **09/2011 - 07/2019**

- 10 iGCSEs: 8x 9s, 2x 8s

Experience

Backend API Developer **Opus - Full Time** *Remote* **06/2022 - Current**

- Designed and implemented a scalable API for the backend of the company's platform using **Typescript, Nest, Mongoose, MongoDB, Heroku, Azure, AWS Lambda** and **AWS S3**.
- Dealt with securing sensitive consumer information using different authentication and encryption methods.
- Created unit and e2e tests as well as a scalable database seeder to aid the front-end testing process.
- Actively mentoring and supervising newcomers - responsible for handling pull requests and reviewing code.
- Working in a Continuous Integration/Deployment Pipeline environment.

Frontend Web Developer **Satalia - Internship** *Islington, London* **06/2019 - 07/2019**

- Worked in a team of three to design and create an informational website about the progression of AI since the 1950s.
- Completed the project in a short time frame using **React** and **Netlify**.
- Gained insight into the development procedures and pipelines used by the company to coordinate developers, meet client specifications and manage version control.

Projects

Web Application **Crypto Arbitrage Monitor** **02/2022 - Current**

- Developing a full-stack web application which scouts user-specified cryptocurrency markets for arbitrage opportunities, followed up by a SMS/email/desktop notification when said price discrepancies are detected.
- Implementing an API for the backend of the platform using **Typescript, Nest, Mongoose, MongoDB, AWS Lambda, Heroku** and third party exchange APIs to fetch cryptocurrency data.
- Front-end of the platform is being developed using **React** and **Tailwind**.
- Other aspects of development include authentication, encryption, load/stress testing, seeding, UI/UX design, etc.
- Post production plans include creating a business out of the platform by implementing a subscription model.

Web Application **Data Bin** **09/2022 - Current**

- Developing databin.co.uk (working version is published) - a service for transferring/temporarily storing text, code and files.
- Front-end development in **React** and **Tailwind** and backend development in **Nest, Typescript** and **MongoDB**.

Google Chrome extension **Search Tenure for Rightmove** **02/2022**

- Created and published a Google Chrome [extension](#) that filters property results by tenure on the Rightmove website.
- Developed in pure **Javascript, HTML** and **CSS**.

Python Script **Automated Cryptocurrency Trading Algorithm** **10/2019**

- Created an algorithm which trades a user-specified cryptocurrency pair using the RSI indicator to make trading decisions.
- Used a third-party API to fetch coin data and execute trades on a cryptocurrency exchange.
- Created a CLI for users to navigate the bot.
- Uploaded the script to an AWS EC2 instance to run for 14 days, yielding a 7% net profit.

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