Ben Brooker

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Education

University of St Andrews *BSc Hons Economics* (predicted 2:1)   [Sep 2018 – Jun 2022]

Clacton County High School *A-Level, GCSE*   [Sep 2012 – Aug 2017]
- **A Level:** Mathematics A*, Further Mathematics A, Physics A

Technical skills

Programming: Java (Spring Boot) | Python (Pandas/Scikit-Learn/TensorFlow) | R | Git
Web technologies: JavaScript (React.js, Express.js, Jest, Enzyme) | Python (Django) | HTML5 | TailwindCSS
Blockchain technologies: Solidity | Truffle | Web3.js | Hardhat | Ethers.js
Database technologies: SQL (PostgreSQL) | NoSQL (MongoDB)

Professional experience

American Express || Technology intern   [Jun 2021 – Aug 2021]
- Created a responsive travel sales web page using React.js, Redux, Redis, JS (ES6+), HTML5 and SCSS.
- Created unit tests using Jest and Enzyme libraries, maintained 100% code coverage with tests.
- Contributed to architecture discussions to scale Java back-end to handle higher throughput.
- Worked in Agile environment, completed five 2-week sprints, and used the project management tool Rally.
- Performed 8 project demonstrations and discussions to senior employees and key stakeholders.
- Organised and marketed Q&A sessions between employees and technology interns.

Personal projects & Hackathons

Student Rentals App || (PostgreSQL, Express.js, React.js, Node.js)   [Nov 2021 - Present]
- Full-stack application that allows students to connect with private landlords that are looking for tenants.
- Express.js and Node.js RESTful API connected to a PostgreSQL database with a React.js front-end interface.
- Nodemailer SendGrid API enables an automated email service for JWT authentication and password changes.

WorkRate.netlify.app || (JavaScript, React.js, Redux, Express.js, MongoDB, TailwindCSS)   [Mar 2022]
- Full-stack social media website and forum where employees can anonymously share their experiences at work
- Users can like, dislike, save, update, filter, and sort posts as well as add comments.
- React.js and TailwindCSS are used for the client-side and Redux.js is used for state management.
- Express.js back-end that connects to a MongoDB database and a SendGrid email service for authentication.
- Deployed with Heroku and Netlify.

Social media API || (Java, Spring Boot, MongoDB)   [Feb 2022]
- REST API built with Java Spring Boot (Spring data) built with Gradle and uses MongoDB for database.
- Template created to speed up development of future projects and deployed with Heroku.

iCrypt.netlify.app || (Solidity, Ethers.js, Hardhat, React.js, TailwindCSS)   [Jan 2022]
- Client-side template for a crypto-currency financial management platform, deployed using Netlify.
- Solidity smart contracts that allow the user to connect their wallet and transfer Ethereum to other wallets.
- Dashboard templates for liquidity pool deposits, cryptocurrency swaps and creation of ERC20 standard tokens.

dcf-calculator-django.netlify.app || (Full stack: Python, Django, React.js, CSS5)   [Jan 2022]
- Scrapes the web for financial statement data for 25000 companies, deployed using Netlify and Heroku.
- Allows user to perform DCF-valuation method, sensitivity analysis and Piotroski f-score calculation.

STACS Hack the Bubble 2021 || Hackathon   [Nov 2021]
- Worked in a team of 5 to create a roulette machine where players participate in a tournament and are ranked.
- I created the front-end using React.js and TailwindCSS and performed unit tests on key functionalities with Jest.

Other experience

Marks and Spencer || Operations assistant	[Jun 2019 – May 2020]
KPMG || Virtual data analytics intern	[Apr 2020]
Grant Thornton || Spring week intern	[Mar 2020]
St Andrews Waffle Co || Customer assistant	[Mar 2019 – May 2019]
Halifax || Customer sales advisor	[Oct 2017 – Sep 2018]
4Ps Marketing || Marketing work experience	[Mar 2017]
Nuffield Research Foundation || research placement	[Jul 2016 – Oct 2016]

Extra-curricular

University of St Andrews investment society || Equity research analyst	[Jan 2019 – Present]
University of St Andrews charities campaign || Finance officer	[Mar 2020 – Mar 2021]

Professional interests: web development, data structures & algorithms, blockchain, start-ups, marketing, sales
Extracurricular activities: baking, music (piano, guitar, ukulele, rap), boxing, wrestling, jiu-jitsu, running, football