

Ben Brooker

Email: brooker.ben1@gmail.com || Phone: 07541310754 || LinkedIn: /ben-brooker || GitHub: bben1

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] |
| <ul style="list-style-type: none">- 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

| | |
|--|------------|
| WorkRate.netlify.app (JavaScript, React.js, Redux, Express.js, MongoDB, TailwindCSS) | [Mar 2022] |
| <ul style="list-style-type: none">- 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] |
| <ul style="list-style-type: none">- 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] |
| <ul style="list-style-type: none">- 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] |
| <ul style="list-style-type: none">- 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] |
| <ul style="list-style-type: none">- 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. | |
| DurHack20 Hackathon | [Feb 2020] |
| <ul style="list-style-type: none">- 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 | |