

Ben Brooker

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Education

University of St Andrews [Sep 2018 – Jun 2022]

- **BSc Economics:** Upper second-class honours (2:1)

Clacton County High School A-Level, GCSE

[Sep 2012 – Aug 2017]

- **A Level:** Mathematics A*, Further Mathematics A, Physics A

Technical skills

Programming: Java (Maven) | Python | JavaScript/TypeScript | R | Git

Web technologies: React.js, Next.js, Express.js, Nest.js, Sails.js, Django, HTML5, TailwindCSS

Database technologies: SQL (PostgreSQL) | NoSQL (Couchbase, MongoDB)

CI/CD: XLR, Jenkins, CircleCI, Docker, Kubernetes

Professional experience

American Express

Technology Software Engineer Graduate

[Sept 2022 – Present]

- Back-end team working on SafeKey online payments service.
- Working with Java Microservice architecture with KAFKA consumer-producer pattern and Splunk logging.
- Building upon authentications and enrolments for EMVCO 3DS 2.0 online payments protocol.
- Maintaining high code quality and working in local, development, staging and production environments.
- Working in Agile environment, hosting stand up sessions and using the project management tool Rally.

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.

DataCamp

Full Stack Software Engineer intern

[Jun 2022 – Aug 2022]

- Worked on front-end with TypeScript, React, NextJS, Redux and Jest to improve UI features for 800,000 monthly users.
- Worked on back-end with JavaScript and SailsJS to refactor API requests into more scalable architecture and implement logging with Datadog to improve monitoring.
- Participated in key architectural discussions and implemented AWS services to improve scalability of applications.
- Maintained high standards of code with CI/CD pipelines (CircleCI and Docker) as well as unit and integration tests.

Personal projects & Hackathons

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.

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]

Halifax || Customer sales advisor

[Oct 2017 – Sep 2018]

4Ps Marketing || Marketing work experience

[Mar 2017]

Nuffield Research Foundation || research placement

[Jul 2016 – Oct 2016]

About me

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